

A Century of Doctorates at Delft



A Century of Doctorates at Delft

Extract from the Register of Doctorates
at Delft University of Technology
1905 through 2001



J.M. Aarts et al.

Delft University of Technology, Delft, the Netherlands

About this book and the CD-ROM

This book is an extract from the register of doctorates at Delft University of Technology. The extract covers the period from the first doctorate in 1906 through the year 2001.

The doctorates have been enumerated in chronological order. Each item mentions the full name of the doctor, the title of the thesis, a subject classification code, the date of the thesis defence, the name(s) of the promotor(s) and concludes with the predicate “cum laude”, whenever conferred. Following the extract from the register, a complete list of the honorary doctorates is included.

A few articles about the Delft doctorate precede the extract.

The CD-ROM offers a searchable version of the Register of Doctorates and a gallery of photographs taken during the ceremonies.

The book and the CD-ROM have been composed by the doctores J.M. Aarts, J.M. Dirken, A.T. de Hoop and J.J. van Loef. Dr. J.E. Mooij kindly gave permission to include some of his quatrains as captions for images of thesis defences. The doctores P.J. French and K.P. Hart assisted in linguistic matters. Technical support was provided by X.W. Wu.

Delft,
Die ante diem natalem,
January 6, 2002

J.M. Aarts

Picture front cover:
Movement in blue by MultiMedia Service
Copyright, 2002

ISBN 90 - 803302 - 6 - 4

Produced by
MultiMedia Service
ColorScan Publication Solutions Group/Voorhout,
ColorScan Tekst & Beeld, design
ColorScan New Technologies, database publishing
Printed by drukkerij Mart.Spruijt bv, Amsterdam

Table of contents

About this book and the CD-ROM	III
Introduction by the Rector Magnificus	VII
Some images of thesis defences	1
Doctorates at Delft in the twentieth century	15
Fifty early doctorates and fifty recent ones; change and continuity	35
Extract from the register of doctorates	55
Subject classification	57
Extract from the register of honorary doctorates	269

Introduction

'A Century of Doctorates at Delft' gives an overview of the 3804 doctorates awarded between 1905 and the end of 2001 at the *Technische Hoogeschool Delft*, later renamed *Technische Hogeschool Delft* and finally Delft University of Technology. Doctorates constitute one of the most important products provided by an institution of higher education. A doctorate is, after all, the highest academic degree that such an institution can award. This has been the case ever since the first universities were founded some 800 years ago.

Nowadays, a doctorate is the result of a study of three to five years, during which the student receives tuition while at the same time carries out independently pioneering research. This research leads to a doctoral thesis or proof design, which has to be defended in public. The doctoral examination committee, chaired by the *Rector Magnificus* and consisting of the thesis supervisor, professors and guest experts, assesses the manuscript or proof design. In case all the members of this committee have granted their permission to the candidate to defend the thesis or proof design in public, it means that in their opinion the manuscript or technical design is of adequate level and quality to confer the doctor's degree. During the public graduation ceremony, the candidate's defense of his or her thesis or design will be assessed. If the doctoral examination committee judges this defense also positively, the candidate will receive the doctor's degree diploma, which is signed by the *Rector Magnificus* and the thesis supervisor.

The preparations for an academic doctorate and the way the doctorate examination takes place have not always been as described above. For that reason, it might be interesting to take a short look back at how the first universities came into existence, how degrees were conferred in the Middle Ages, and how various developments led to the award of the first doctorate at Delft. This last topic will be considered more in detail elsewhere in this volume.

The founding of the first universities, like the ones in Bologna, Paris, Oxford, Montpellier, Cambridge and Salamanca, at the end of the 12th and the beginning of the 13th century, was the result of a number of political, social-economic and cultural developments in medieval Europe. For a small part of the population the standard of living increased, and that part of the society became more and more interested in structuring knowledge in a systematic way, and so the need was felt to create centers of higher education. In these institutions, the cultural elite, which had the capacity to fill socially important positions, was trained. The objectives of the students were to acquire fundamental knowledge and to obtain practical skills.

The universities were of great importance, not only to the students and teachers, but also to religious and worldly leaders. They all hoped that the knowledge and skills disseminated at the universities would reinforce their position. For students and scholars,

a study at a university also implicated that they were protected largely against a number of threats from medieval society. They were recognized as a separate class and were protected by both religious and worldly leaders.

The diplomas granted by the universities gave the right to use the title of *baccalarius*, *magister* or *doctor*, although it should be noted that the degrees of *magister* and *doctor* were often used indifferently at many universities. In arts, the degree of *magister* was usually awarded and in law the degree of *doctor* was used; in theology and medicine a great variety of degrees existed. The *baccalarius* degree was seen as the completion of the first phase of university education. The diploma qualified the holder to become a 'junior-teacher' at the university in a certain discipline under the supervision of a *magister* or *doctor*. The degrees of *magister* and *doctor* gave their holders the formal right to teach independently.

Obtaining an academic degree was a complex process. Before a candidate could enter the *baccalarius* examination, he had to prove that all conditions for obtaining this degree were fulfilled. Did he study long enough, had he accomplished all academic exercises, had he read all the specified documents, and had he actively taken part in all the disputations? If so, an oral examination followed, which - as a rule - consisted of a discourse in which the candidate had to give his view on a particular problem. A *baccalaureus* had the possibility to continue his study for a number of years in order to acquire his *licentia*. For the *licentia*, an examination was held in the presence of a jury that consisted of *magistri* and *doctores* and was chaired by the *rector*. Usually, this examination consisted of a disputation, in which the candidate had to defend a certain view on a particular question, a 'point', which was drawn by lot the previous evening or morning. If the candidate won the disputation, he became a *licentiatus*, i.e. a 'graduate'. Paradoxically, the *licentia* was no license to teach at the university. To obtain the right to teach, the candidate had to take a public examination, which normally took place soon after receiving the *licentia*. This examination, which was the actual solemn inauguration into a university teaching position, led to the award of the degree of *magister* or *doctor*. It was a ceremonial examination - one that the candidate could not fail - and normally took place in a church. After that examination, the candidate received the attributes belonging to a *magister* and *doctor*, namely the biretta, gloves and 'doctor's book'. After that, he performed his first act as a *magister* or *doctor*, usually consisting of a disputation with students on a topic of his choice. This disputation had to demonstrate that he was able to teach, and marked his entrance into the body of doctors.

It should be mentioned that many *licentiati* never obtained a teaching position at the university of their doctorate. In that case, they did not appeal for the degree of *magister* or *doctor*. The reasons were that the procedure was very expensive and that - although a *doctor's* degree was very prestigious - it gave no further rights outside the university. It was indispensable only for those who wanted to teach, because they had to be member of the *collegium doctorum*. The question remains whether all those who did obtain the highest

academic degree, being *magister* or *doctor*, actually had a teaching position. Originally, this was a requirement formulated in the academic statute. According to that statute, every new magister or doctor had to serve the university as a *necessarius* with a teaching period of two years within his own faculty. This rule ensured that the university teaching staff was renewed regularly. However, the *necessarii* viewed the rule as a restriction of their professional development, while the established staff viewed it as a threat to their position, because it was in their own interest to restrict the number of teaching positions. For these reasons, the rule was applied less and less, and from around 1450 it was dropped from the academic statute of most universities.

Outside the university, an academic degree was not required for practicing a profession. In many professions, a person with an academic degree did not necessarily have a higher status than a person without a degree. However, a university education was often required for many public service positions, as there were no specific education and training facilities for such positions.

In the first centuries after the founding of the universities, a stay at a university was considered to be a valuable element of education, both for children of aristocracy and of the middle classes. However, many of them did not complete their study and never graduated. Gradually, this situation changed, and from the 15th century on an academic degree began to be a significant qualification for an appointment in ecclesiastical and worldly positions. In this way, a university education, first without and later with a degree, became characteristic of the professional and social elite employed in religious profession, legal practice, civil service, medical care and education.

In the Northern Netherlands, the first *Hoogescholen* (later called 'universities') were founded in the period 1575 to 1640: Leyden (1575), Franeker (1585), Harderwijk (1600), Groningen (1614) and Utrecht (1636). These institutions held the *ius promovendi*. In the same period also the first *Athenaea*, also called *Illustere Scholen*, came into existence. These were institutions for semi-higher education; they did not hold the *ius promovendi*.

In the Northern Netherlands, scientific technical education started in Leyden, where Prince Maurits announced an education programme '*Duytsche Mathematique*', designed by Simon Stevin, on January 9, 1600. The very next day, the mathematician Ludolf van Ceulen got the assignment to take care of the education in mathematics and surveying of students in engineering science¹. This school of engineering associated with Leyden University was basically an institution of higher professional training. The stipulation that the lessons had to be taught in Dutch and not in Latin, as was customary in academic education, stressed the difference between students of the new engineering education program and those of the traditional academic programmes. In Leyden, the graduated engineers were consequently often characterized as 'rather ordinary service providers with a

¹ Ludolf van Ceulen was instructed "voor hen, die zich in het ingenieurschap zullen willen begeven lezingen te houden over arithmetique of te tellen ende het landmeten, met demonstratie op papier en in 't veld."

fairly modest level of education'. Gradually, engineering education also developed at other universities. However, none of the universities realized a good integration in their academic education programmes, although one gets the impression that, for example, in Franeker and Groningen the relations between the engineering faculty and the traditional academic faculty were better than in Leyden.

In 1842, the *Koninklijke Akademie* (Royal Academy) was founded in Delft. In that way, the engineering education for industry and trade² in The Netherlands was accommodated in a separate institution. This institution fell under the regime of secondary education and consequently it did not hold the *ius promovendi*. When Mr. J.R. Thorbecke, Prime Minister and Minister of the Interior, began planning a general revision of the legislation on education around 1862, he already foresaw the founding of a *Polytechnische School* as a successor to the *Koninklijke Akademie*. Many tried to persuade Thorbecke that a *Polytechnische School* should be placed under the regime of higher education. Thorbecke was not really in favour of this idea, as can be learned from his reply to Parliament. He stated that education at the *Polytechnische School* should not be regarded as academic education, but as advanced professional education in preparation for positions in trade and industry³. The Parliament agreed and in 1864 the *Koninklijke Akademie* became the *Polytechnische School*, once again under the regime of secondary education.

Nevertheless, many persons continued to press for the *Polytechnische School* to become part of the higher education system. At the beginning of 1902, an opportunity presented itself. Prime Minister Dr. A. Kuyper held the opinion that the industrial developments in The Netherlands made it necessary to establish a *technische hogeschool*. He intended to incorporate that new institution in his new act on higher education, and he wished to give the *Polytechnische School* at Delft the status of a *technische hogeschool*. However, this required an adaptation of the education programme, the form of administration and the internal structure of the *Polytechnische School*. This was realized and on July 10, 1905, Her Majesty Queen Wilhelmina officially opened the *Technische Hogeschool Delft*. Due to the fact that this *hogeschool* was an institute of higher education, it obtained the *ius promovendi*, which enabled the graduates of this institute to continue their study to obtain a degree of doctor of technical science. It is notable that there was no

² The Royal Decree reads: "Een Akademie ter opleiding van burgerlijke ingenieurs, zoo voor 's lands dienst als voor de nijverheid en van kweekelingen voor den handel."

³ Thorbecke stated: "De Polytechnische School is hooger onderwijs, zegt men. Zoo als men het verstaan wil. Het is hooger onderwijs vergeleken met de burgerscholen, maar het is niet universitair onderwijs. Het is onderwijs op een geheel ander terrein. Professioneel onderwijs is niet strijdig met mijn systeem: het middelbaar onderwijs moet een grond van algemeene beschaving leggen. Daartoe dienen vooral de burgerscholen. Doch aan de uiteinden van die reeks vindt men, beneden, de burgerscholen voor ambachtlieden en kleine landbouwers, bovenaan de Polytechnische School: deze is een samenstel van speciale scholen; voorbereiding voor bepaalde bedrijven in de maatschappij. Zij zet de kroon op het organisme van onderwijs, dat het onderwerp van dit voorstel uitmaakt."

serious opposition to the founding of the *Technische Hoogeschool*. From the minutes of the relevant debate in Parliament, we learn that the general opinion was that in the case of technical education - even more so than in university education - one had to take account of strong foreign competition and of the importance of such education for the Dutch economy⁴. However, the establishment of doctorates at the *Technische Hoogeschool* encountered some resistance. In the same minutes, it is stated that this constitutes a clear break with the tradition whereby a grounding in the classics was considered a necessary qualification for academic education⁵. The point of discussion was that for students of the *Technische Hoogeschool* such a classical training was not required. The Prime Minister countered this argument by saying that a doctorate from the hoogeschool was not the same as one from a university. He emphasized that at a university the doctorate is a natural *terminus ad quem* to be distinguished with respect to the faculty, whereas at the hoogeschool a doctorate will only be strived after by a limited number of graduates who aim at further scientific qualifications⁶. In accordance with this view, the parliamentary bill refers to the degree of 'doctor of technical science'. It was only in 1964 that the plural term 'doctor of technical sciences' was introduced.

The first Delft doctorate was conferred on July 6, 1906, and it took almost three years before the tenth doctorate was conferred. By December 31, 2001, about 96 years after the founding of the *Technische Hoogeschool*, 3804 doctorates have been conferred by the *Technische Hoogeschool Delft*, later on by the *Technische Hogeschool Delft* and Delft University of Technology. The present book, published on the occasion of the 32nd lustrum of Delft University of Technology, gives an overview of those doctorates and a survey of the development of graduating in Delft. It can be seen as a successor to the book '*2000 Delfse dissertaties, een bibliografie*' published in 1992 by the Library of Delft University of Technology on the occasion of the 150th anniversary of the university. As a matter of fact, that book was a successor to previous bibliographies of Delft dissertations published in 1955 and 1966 on the occasion of the 50th and 60th anniversary of the *Technische Hogeschool Delft*.

⁴ The minutes state: "Sterker nog dan bij universitair onderwijs is op technisch gebied te rekenen én met de sterke concurrentie van het buitenland, én met den onmiddellijken invloed van dit onderwijs op onzen volkstoestand en 's lands welvaart."

⁵ The minutes state: "Eene te krasse inbreuk met de traditie, waar tot dusverre de klassieke studiën als noodzakelijke voorbereiding voor het universitaire onderwijs op den voorgrond hebben gestaan."

⁶ Kuyper answered: "Aan eene universiteit is het de natuurlijke terminus ad quem en is daarom naar de faculteiten onderscheiden; bij de hoogeschool daarentegen is het een uitzondering ten behoeve van hen, die na hun eindexamen verworven te hebben, zich als candidaat-geleerde voor een hooger titel aanmelden."

The initiative to publish this book was taken by the Board for Doctorates in June 2000. This Board appointed an editorial committee, consisting of prof.dr. J.M. Aarts, prof.dr. J.M. Dirken Eur Ing, prof.dr.ir. A.T. de Hoop and prof.dr. J.J. van Loef. We trust that this book will provide valuable information on the many doctorates conferred at Delft and on the development of 'graduating at Delft'. The book pays a tribute to all those young scientists whose research has made the name of our institution known throughout the world.

Prof.ir. K.F. Wakker
Delft, January 6, 2002
Rector Magnificus
Chairman of the Board for Doctorates

Some images of thesis defences

Intocht

Wij schrijden binnen in een stijve stoet,
pedel met staf, rector en professoren,
bijna zo hanig als de drie tenoren.
Weet, promovendus, wat gij weten moet.

Grand entrance

We solemnly enter in a formal procession
beadle with mace, rector and professors,
almost as cocky as The Three Tenors.
Knowest, promovendus, what thou should know.



Titulatuur

Zeer- dan wel hooggeleerde opponent?

De vraag rijst of in de promotie-uren

aan wetenschap of puur de procedure

meest dan wel hoogst belang wordt toegekend.

Addressing in form

This opponent, is he very or highly learned?

One wonders whether during the defence

Science or purely the protocol

is esteemed to be prevailing.

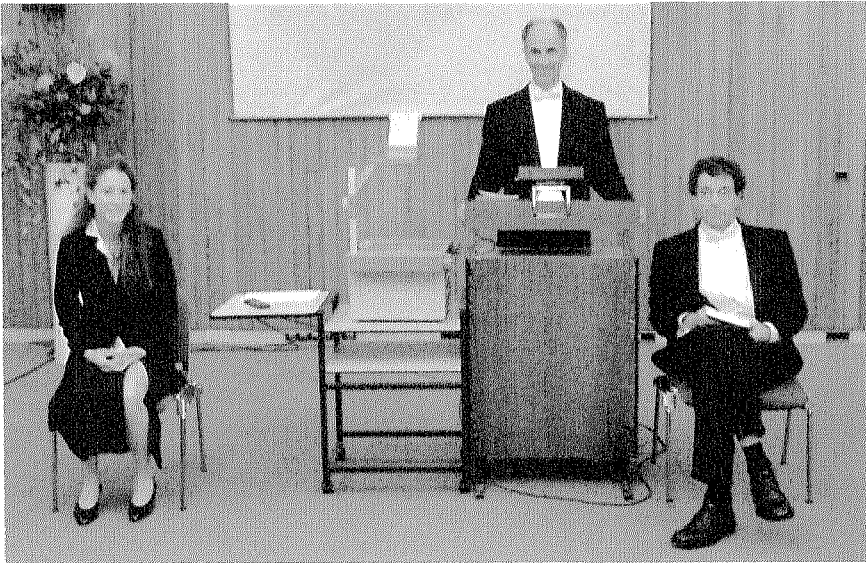


Paranimf uit 't vak

De vragen worden niet aan haar gesteld,
ze hoort waarschijnlijk bij de goede vrienden.
Maar als wie wél praat 't antwoord niet kan vinden
zie je het door haar ogen uitgespeld.

Paranymph, a second in expertise

The questions are not posed to her,
a close friend-in-support this hour.
But, when who does talk cannot find the answer,
one sees it spelled out by her eyes.



Oud&nieuw

De toegevoegd promotor: lang verhaal,
mer als conclusie drie, vier kleine vragen
die in het stellen al hun antwoord dragen.
De promovendus snapt het allemaal.

Old&new generation

The adjunct promotor: long exposition,
concluding with three or four minor questions
that encompass their answers in the formulation.
The promovendus grasps it all.



Hemelse gerecht

De lange zitting lijkt op puur gepest.

Het roodvlekhalsje fladdert in een hoekje,

zes zwarte kraaien pikken aan haar boekje.

Dan daalt de engel neder. Hora est.

Celestial intervention

The dragging session feels like sheer bullying.

The little redsporneck flaps around in a corner,

six crows in black are pecking at her booklet.

Then: the angel cometh down. Hora est.



Slinger van de tijd

Het rokkostuum, ooit kleding op bevel

en met de tijdgeest amper te verzoenen.

Vandaag opeens zes hooggelakte schoenen.

Twée blauw met witte sokken, dat nog wel.

Pendulum of time

The white tie dress, once costume by ordinance

and hardly reconcilable with the spirit of the time.

Today we see six patent leather shoes.

Two blue and white socks do remain.



Doctorates at Delft in the twentieth century

A start with uncertainties

The first of many

On July 6, 1906, less than a year after the opening of the Technical High School Delft (TH), the first doctoral ceremony took place. The technologist (chemical engineer) N.L. Söhngen, received his Doctor's degree. The subject of the thesis was: *The origin and vanishing of hydrogen and methane under the influence of the organic life.**) The supervisor, called 'promotor' in the Netherlands, was professor dr.ir. M.W. Beijerinck of the Department of Chemical Technology and Mining. Söhngen was not the first person with the title Doctor Engineer (dr.ir.). Those with an engineering degree from the former Polytechnical School, the predecessor of the TH, had been able to obtain a doctorate at German Technical High Schools since 1884, although this road had rarely been followed. Now in 2002, 96 years later, in the Netherlands thousands of academic engineers have obtained, since, the doctor's degree. In "Delft" more than 3800 doctorates have been bestowed, in eight out of ten cases to persons with an M.Sc. degree in Engineering (since 1917 also persons with a different Master's degree were permitted to enter the doctoral study at Delft). Also many academic engineers later received the doctor's degree at other Dutch Universities and High Schools.

Doubts over the Doctor in Engineering

Many discussions and deliberations had preceded this first doctorate at Delft. The Polytechnical School, the 'PS' (1864-1905), had been promoted by law of May 22, 1905, to a Technical High School. In The Netherlands this meant a step upwards from secondary to higher education and concerned seven different engineering curricula comprising five years, each with a Bachelor's and Master's degree (in the Netherlands the B.Sc. degree has always been regarded as a intermediate degree of study and not as a professional start for some or many of them). The newly acquired academic position also implied being on a par with the universities, including the 'ius promovendi': the right to bestow doctorates. This prerogative, however, was not being regarded everywhere as a matter of course. Doubts were expressed by academics and politicians, and also by engineers themselves. Mr. Thorbecke, the Prime Minister, had established in 1863 for the middle-class in society a type of secondary school: the Hoogere Burger School (Higher Burgher School) or HBS. The engineering education at the above-named PS was consecutive to this HBS. It was part of an educational stream designed for trade and industry, which was considered to have a nature different from the education for the learned professions through the Latin School (Gymnasium), followed by University. In the 19th century the Dutch universities, it is true, mainly prepared for professions: jurist, clergyman, physician, teacher, but this implied a certain knowledge of the classics –especially Latin– as a mark of civilization and traditional background. Recognition that engineering ought to be based on something as 'technological science', was far from general and had been recently imported from abroad. Many held the opinion that it was improper and exaggerated

*) Dutch titles of theses have been translated as closely as possible.

to open for technicians with a HBS background and thus without knowledge of Latin the possibility to become a doctor.

Doctorates in Engineering exceptional?

Dutch universities had already some time earlier protested against the appointment of 'professors' at the PS, even at a lower salary. The universities had also rejected the idea of taking up themselves an academic engineering education. (Ultimately, this idea was accepted by Groningen University in 1971, be it on a moderate scale.) Finally, in 1905 the political debate about the *ius promovendi* of Delft led to a positive outcome. One expected that the doctorate in engineering was to be rather exceptional, principally meant for training new professors for this single High School. This rarity proved itself and lasted for a long time. In the first half of the 20th century only a relatively low percentage (five per cent) of the academic engineers received the doctor's degree. Compared to most other branches of science the percentage nowadays is still a modest one. The second aim, the nurturing of professors, was only realized to a limited extent. Within the group of the first fifty doctorates at Delft nine persons became professor at the TH. In contrast to the general universities in the country, however, during most of the century the majority of the body of the Delft professors bore no doctor's title *). This adds to the idea that combining technology and the doctorate is not a matter of course.

Politics around 1905

The legislation of 1905 concerning higher education was also based on the consideration that the country could strengthen its prosperity and international competitive position by increased technological knowledge. Foreign examples were also of some influence. In Germany and France, higher technical education could be found much earlier, although in their beginnings without the *ius promovendi*. Debates in the Dutch Parliament amended Delft's request for the right of granting doctor's degrees in "Technological Sciences" to the more modest singular "Technological Science". Only in 1964 the plural became legally recognized. In 1905 the '*ius promovendi*' for Delft implied an addition in the law of a sixth Faculty (Technological Science) next to the existing five: Divinity, Law, Medicine, Literature & Philosophy, Mathematics & the Natural Sciences. The elevation of the PS to Technical High School was, however, not the only matter. It was part of a political package deal, by which the Prime Minister, being Minister of the Interior as well, dr. A. Kuyper, realized at the same time the legal recognition of the

**) The Annual Catalogue 2001-2002 of the Delft University of Technology presents a list of the 418 living professors, retired since 1975. More than half of these prove not to possess a doctor's title. The picture is, however, shifting, because in the same source can also be found that, of the then actual body of 318 professors, almost $\frac{1}{4}$ is doctor. Of this professorial staff more than 30 per cent had another degree than in engineering. At the start of the TH in 1905 out of the 39 professors 9 had a doctor's title and 23 were engineer (title: *ir.*); only three of them were *dr.ir.* Out of the 49 persons that in the period 1905-2000 held the position of Rector Magnificus (Vice-Chancellor), 28 had a doctor's title and 35 were academic engineer.*

Calvinistic "Free University" at Amsterdam that he himself had founded in 1880. Now the road was paved for other special universities too, such as the Catholic University at Nijmegen (1923), but also for other High Schools such as the High School for Commerce (Handelshoogeschool) at Rotterdam (1913) and the one for Agriculture at Wageningen (1917).

'A real engineer does not want the doctor's title'

As said before, doubts on the value of the doctor's degree for engineers were also expressed within the technology sector itself. The equivalence with universities was felt as a deserved recognition, but did this also imply the incorporation within 'elitist traditions and doctrinarian theorizing'? Pursuing academic titles would rather be characteristic for commoners and upstarts, wouldn't it? The dissertations that were then usual for a doctorate could hardly accommodate the problem solving by engineers, being skilled but in the first place practical and pragmatic. Until the second half of the 20th century the engineer with a doctorate was by many looked upon with some suspicion. In several technical sectors it was even reputed to be a counter indication for employment. For instance, with Rijkswaterstaat, the influential and prestigious governmental Department of Public Works and Water Management, the semi-official saying went: "a real civil engineer refrains from a doctor's title". The Dutch M.Sc. title for engineer is *ir.*, as opposed to *drs.* (*doctorandus*) for the Master's degree of most other academic disciplines, and -some maintained- this exceptional, official abbreviation again underlines the 'different' position of engineers.

Dissertation or Design?

For several of the aforementioned reasons the doctorate in Technological Science(s) was cared for by special regulations. In the Royal Decree of July 4, 1905 a special paragraph 3 was included: "On the Doctorate in Technological Science". Here it was decreed that entrance to doctoral studies was allowed only to those with an M.Sc. degree in Engineering. Furthermore, if desired, additional proof of practical performance could be required. The requirement is remarkable that for the doctorate either a dissertation had to be written or a design had to be shown, or both. Also a set of additional propositions was required. The legal text continued that the dissertation or the practical design, and the additional propositions, should be related to technological science. Under the present law, the WHW: Law on Higher Education and Science of 1997, several of these elements have been notably changed, if only because technical higher education has been legally integrated with general higher education and is no longer subject of a separate legislation. The admittance to doctoral studies has been broadened. As mentioned the candidates should have successfully passed the final examination of at least a four-year course in higher education (university or higher vocational schools, the latter now being called High Schools, whereas the former High Schools, such as Delft, became special Universities). Factually, this delegated the admittance mainly to the professor at the university who takes up the

responsibility of 'promotor', being the thesis supervisor. In 1917 an M.Sc. degree from a Faculty of Mathematics and the Natural Sciences also became recognized as an adequate starting point for a Delft doctorate. In 1964 this was broadened again to any Master's degree, and since 1985 admittance was even possible on the basis of a Bachelor's degree from one of these new (Vocational) High Schools. Many of the doctoral students, also traditionally called 'promovendi', are, however, having Master's degrees from foreign universities*). In the aforementioned WHW law the possibility of requiring a proof of past practical performance has disappeared –actually this happened long before- and also propositions were no longer a requirement. Whether or not propositions are required depends on the Doctoral Regulations of each University separately. What did remain, however, is that the proof of competency can be either a dissertation or a 'proof design'. The latter, initially only meant for Technological Science, can now in principle be applied to any scientific discipline. This proof design was since 1905 - and still is- subject of discussion and uncertainty in interpretation. The question arises whether a doctor's degree could be bestowed by a University of Technology on the basis of a technical design only**). For example, in the form of a material object, drawings, software or a manual for a technical method; and all this without a written, thorough treatment of theoretical backgrounds and scientific developments. Such a 'proof design' also relates to the coming into being in 1986 in The Netherlands of so-called "Advanced Design Courses", taking up two years after an M.Sc. degree in Engineering. Since a few years these courses led to the new title Master of Technological Design (MTD), registered by the Royal Institution of Engineers in the Netherlands. Later on, this field of tension between dissertation and design will again be mentioned. Firstly, there follows as a background a short historical outline of higher technical education.

**) In the five-year period since 1-1-1997 more than 900 persons became doctor at Delft. Of these, 17 per cent had a Master's degree from a foreign university, for ¼ this was from: the EU, Eastern Europe, USA, Canada or Australia. As a background figure may serve that of the about 13,000 students in the Delft engineering curricula about 1100 come from abroad. In this five-year period only one per cent of the new doctors had as a pre-doctoral degree merely a Bachelor's from a Higher Vocational School.*

***) Imagine a doctoral ceremony the core of which consists of the switching on of a designed machine, as ultimate proof that 'it does work' and as principal evidence of technological-scientific aptitude. Then there follow questions, explanations and discussions on workings and on the considerations during the design process. This takes place without published journal articles or book chapters; possibly patents come to the fore. Such a solemn protocol, as far as we know, has never been followed.*

The road towards scientific engineering education

Simon Stevin AD 1600

During the solemn opening of the Technical High School at Delft, in the presence of two queens: Her Majesty Queen Wilhelmina and the Queen Mother Emma, on July 10, 1905, the new Rector Magnificus professor ir. J. Kraus commemorated in a festive speech how in Holland already in 1600 engineering education was started. Prince Maurits of Orange had requested Simon Stevin (Brughes 1548 – The Hague 1620) to design an educational programme, especially with a view of fortifications, land reclamation and shipbuilding. This became the "School voor Duytsche Mathematique", narrowly related with the first and only University in the country, at Leyden. At this school ambitious craftsmen, e.g., brick and stone masons and carpenters, were instructed in 'proper Dutch language'. The first two professors were Ludolph van Ceulen*), the mathematician and fencing instructor (was this the reason that the school was situated in the former fencing school of the Leyden university?) and Simon Franz van der Merwe, the surveyor. In seven other towns in the Republic of the Seven United Provinces this example was soon followed. During the 17th and 18th centuries several Dutch universities provided some technical courses, be it on a modest scale and as a peripheral activity. The mere fact that the language of instruction was the local one and not Latin, was seen as ample proof that this did not concern science or higher professions.

First higher Schools of Engineering

The year 1600 was indeed an early start. The 'enghien-maker', or engineer of mediaeval implements, mainly military, and also other technicians were educated in practice by a Master of the Guild, from apprentice to journeyman or fellow, and finally to master. In the course of the 18th century engineering lessons acquire a place in separate military and maritime academies. Soon there followed in central Europe and France non-military - consequently called 'civil'- Engineering Schools. In 1717 emerged the Prague Technical College, in 1735 the Hungarian Mining Academy at Selmecbanya and in 1745 began at Braunschweig the Collegium Carolinum. Initially for military purposes, in France the Grandes Écoles (Schools of Greatness): in 1744 the École des Ponts et Chaussées (Bridges and Roads) and the École des Mines in 1747 were created. Later, in 1794 the École Polytechnique was founded as their preparatory course of two years. In these countries the education of engineers did not become incorporated in the existing universities; it remained in a separate stream of education. For example, in Freiburg in 1760 a 'Technische Hochschule' is founded and in Berlin the Prussian Mining Academy. The German speaking Technical High Schools became recognized in the second half of the 19th century as belonging to the level of universities. Nevertheless the ius promovendi was granted later.

*) Hildesheim 1540 – Leyden 1610, famous for his calculating the first 35 decimal places of the number Pi, which are also shown on his tombstone, now on a plaque, in the Pieters Church at Leyden.

This occurred after 1880 and it was, worldwide for the first time. It is remarkable that in the United Kingdom higher engineering education only appeared late in the 19th century. There, confidence in the old Guild system probably remained longer. In most cases the engineering education was finally incorporated as a Faculty or School within the existing universities.

Dutch Military Schools

In Delft in 1814 a School for Artillery and Engineering was founded, which also educated the engineers for the governmental Department of Public Works and Water Management and for the shipbuilding. This school continued from 1826 as the Military Academy at Breda. In parallel, there was the Royal Institute for the Navy at Medemblik. It took much personal initiative and perseverance to establish in the Netherlands a real 'civil' school of engineering. Trade and agriculture were considered higher than the industry, even after the "loss" in 1830 of Belgium that, after having formed with the Netherlands a unity for about fifteen years, had seceded to become a separate nation.

The Delft Academy from 1842 onwards

Finally, a Royal Decree of January 8, 1842 decided to establish an "Academy for the education of Civil Engineers, for the service of the country and of industry, and of Apprentices in Trading". The date of January 8, 1842 is considered as the date of birth, 'Dies Natalis', of the Delft institute. Its inauguration took place at January 4, 1843 and the next day lessons for the 48 students started. In the meantime, a Royal Decree of July 18, 1842 had added the task of educating the Civil Servants for the colonies in the East Indies. During the 22 years of its existence the school produced 260 engineers and 318 colonial civil servants, but not a single apprentice in trading. The 'Royal Academy at Delft' provided for five engineering curricula: for civil engineers, inspectors of weights and measures, mining engineers, shipbuilders and for chemical/mechanical engineers. It was recognized as Higher Education, although definitely not on the level of universities. Nevertheless, this engineering school remained small, budgetary critical and with little national recognition. This led in 1864 to a rather radical closing of the Delft Engineering Academy, through the dismissal of everyone and the re-appointment of a few only.

The Polytechnical School from 1864 onwards

The Government had deliberated whether the different engineering educations should better be housed in the Faculties of the existing universities: maybe Civil engineering in Leyden and Mechanical engineering in Amsterdam University. These alternatives were rejected and September 26 saw a fresh start in Delft: the Polytechnical School became the next national School of Engineering. The institute, however, was reckoned to belong to the secondary education; its system of governance was changed, as also its financing. Curricula of four years were established for Civil, Architectural, Mechanical and Mining engineering and, as a fifth one, a three year curriculum for "Technology" (Chemical engineering). The

'PS', as the historical intermediate between the Academy and TH, has been very successful. It produced more than 2000 engineers in its forty years of existence until 1905. Its curricula were in level not equal to those of Faculties in the universities. It did not offer the possibility for the graduated engineers to continue for a doctorate. They could only attain a higher degree by going to a German speaking Technical High School (after 1884) or passing a State examination for a Gymnasium diploma (for Latin) plus a fast-track study at a Faculty of Mathematics and the Natural Sciences. These were all lengthy and cumbersome trajectories and, consequently, only rarely trodden.

Preparing for the engineering professions

Post-university Guild training

Technology emerged as a late comer. It was not recognized as a subject of science and as a higher profession before the period of Enlightenment. Even some remnants of today can be explained by this late development. It is clear that already in the beginning phase of European universities in the 13th century several higher professions could trust their education to 'Academia': theologians, jurists and medical doctors. Often, a doctorate in the corresponding Faculty was required for becoming an independent professional, although sometimes the Master's degree was sufficient. The requirements for becoming a doctor varied considerably in the long history of the universities. Higher professions/Guild organizations sometimes considered the level of the academic education and the duration of studies as being too low and too short, respectively. Later on, systems came about to add, after the university formation, practical studies and training on-the-job, supervised by the Guild. An evident example is the model of medical education: after one or more medical degrees at the university (in the Netherlands medical doctorandus), several years of study and practice in hospitals follow, before the recognition as a qualified physician. Studying for a doctorate and writing a dissertation then becomes an optional road, again within university jurisdiction. If the recognition of technical science had historically appeared earlier and with less hesitation, it is conceivable that such a model would also have been applicable for engineers. Does this also explain why the engineers themselves in 1905 had second thoughts on the *ius promovendi*? Being satisfied that both the number of engineering curricula and their duration had been enlarged by the transition from PS to TH *), the engineers may have regarded the years for a doctoral study as a waste of time.

*) The Technical High School Delft began in 1905 with the following seven curricula, each of which consisted of five years and included the Bachelor's- and the Master's degree: Civil engineering, Architecture, Mechanical engineering, Shipbuilding, Electrical engineering, Mining and Chemical engineering. Anno 2002 in the Netherlands the number of academic engineering curricula at the three Universities of Technology has been more than tripled.

And if it became possible to stretch the period of training even further, was it not then preferable to devote the extra time to training on-the-job, supervised by the Royal Institution of Engineers in the Netherlands? This latter way became the appropriate one for most British engineers. The doctorate in technology had a slow start, but a period of supervised engineering practice after the M.Sc. degree in the Netherlands never materialized. Recently, the same ideas played a role, when the Dutch Government decided to shorten every curriculum at the universities to four years, from 1982 onwards. Not so much educational ideals, but rather national economizing was the reason. The risk, however, was obvious that in international comparison those four years would be judged to come short for encompassing both the Bachelor's plus the Master's study. The three Technical High Schools (since 1984 called universities) and the Royal Institute of Engineers in the Netherlands fiercely protested against this government decision. They argued that educating academic engineers required both a scientific training and a design training, and that these together demanded more than four years. Some years later the Government indeed made it possible to establish, to a limited extent, curricula for engineering design, taking two years after the M.Sc. in Engineering.

The graduate courses in Engineering Design

The three Universities of Technology in the Netherlands (at Delft, Eindhoven and Twente) have, during a long period, utilized this opportunity of teaching two year courses in Engineering Design mainly for research training. This did not conform to the original goal of design training, but the production of scientific publications was becoming very urgent at the same time, because of governmental budget reductions for other research personnel. It is odd that the official reduction of the curriculum to four years had no effect whatsoever on the factual duration of studies in engineering. This was and remained on the average six years plus a few months. In 1995 the exceptional position of having programmes of five years was again granted to most of the engineering curricula; whereupon their average duration of study continued to be six years plus a few months! The existence of design courses and the duration of the master's study seemed to be unrelated. Several of these post-M.Sc. courses still exist at the three Universities of Technology, be it with moderate numbers of students and with less acclaim than they probably deserve. Some of these courses, especially those at Eindhoven, have also become a 'stepping stone' for a quick doctorate on basis of a dissertation annex proof design. The combination of ir. and MTD (Master of Technological Design) shows some resemblance to the aforementioned model of medical education. Proposals to entitle the graduates of the Engineering Design courses to a "Professional Doctor" in stead of an MTD, were rejected earlier. The medical model for professional preparation has been copied in the Netherlands for several judicial specializations and accountancy, but have not become the common path to qualify engineers.

The aio's and oio's (research assistants in training)

In 1976 legislation once again appeared to restructure the universities. This time this also had a substantial effect on the numbers and ranks of personnel. After much delay this finally resulted in the introduction in 1984 of the system of research assistants in training. When paid by the university their acronym was "aio" and when paid out of national research funds*) or by a third party the name was "oio". It was problematic how to combine several principles. The first principle was the increase and improvement of the university research. The second was economizing on the tenured university personnel. The third principle was more delicate and typically Dutch: it was not politically correct to select students at the entrance of a study, even a doctoral study; in contrast, it is correct to select new personnel. The outcome was that the students continuing their studies for a doctorate (or MTD) were selected and became junior, temporary members of the university staff. Since then most of the doctoral students, together constituting about 1/4 to 1/3 of the research capacity of universities, received a modest salary and had to spend at least 70 per cent of their hours for a doctoral study, to be completed within four years. This solution was a remarkable one, because universities abroad usually charge fees for the doctoral studies, although there are several systems of scholarships with fierce competition and sharp selection. The net result of the new Dutch system was a considerable increase of doctoral students and doctors, also in fields where these were less common, such as in engineering sciences. The system also meant that a diminishing percentage of the university teaching staff acquired the doctorate during their university career. This may, probably, be attributed to the increase of their teaching load. The relative number of persons outside university and preparing a dissertation next to a regular job, evidently, decreased. Not surprisingly, this vast body of research assistants became a considerable factor in the scientific production of the Faculties. Their contribution is usually not restricted to the publication of the dissertation, but also consists of several scientific articles published elsewhere and also serving as chapters of the doctor's thesis. The emphasis on "publish or perish" also favours situations where well geared research groups incorporate the young assistants as members, to continue ongoing lines of projects and to learn and contribute in team work. This way of participating can be a very efficient preparation for research jobs later. The training on-the-job of the medical model again comes to mind, be it in this case for the job of research engineer. The effects of this system of research assistants-in-training are clearly demonstrated by several statistics. From 1985 to 1998 the national, annual production of new doctor's titles grew from around 1000 to 2600 (for Delfts annual production see Figure 1). In the same period the annual production of scientific publications by the Dutch universities increased from 38,000 to 51,000. The percentage of drop-outs of the doctoral studies is between 25 and 30, and it usually takes five years till the doctor's degree is received. The one year in excess of the four-year appointment

*)Generally speaking, in Delft the number of aio's and oio's were equal. Among the national research funds an important and stimulating role was played by the STW, the Foundation for Technical Sciences.

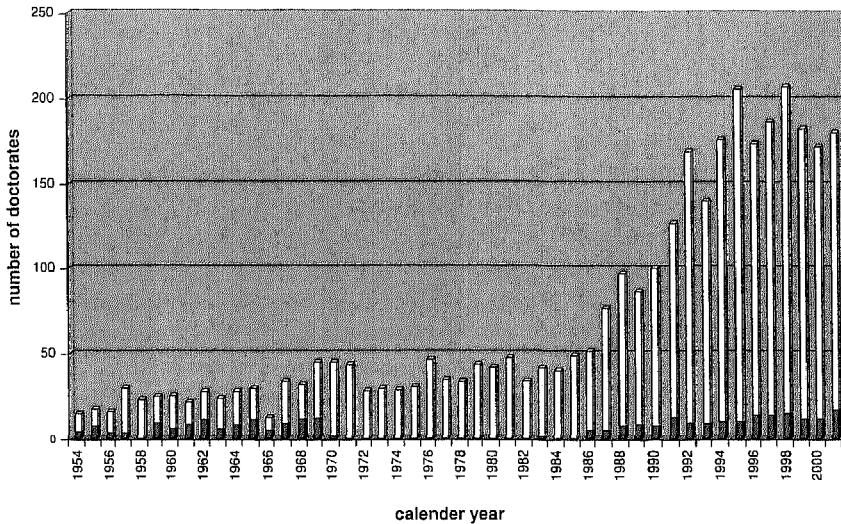


Figure 1: Number of doctorates per annum (period 1954-2001): ■ is number of doctorates cum laude

sometimes goes without a salary. At Delft the system is changing in several respects. Since 1999 the assistant's position is different and his salary has been raised. In the years 2000 and 2001 approximately one-third of the doctoral assistants possesses a Master's degree from a foreign university, indicating an important aspect of further internationalization.

Fundamentals / Principles / Designs?

Uncertainty continues to hover over the engineering field: what type of doctorate in technology is most useful, and what type of jobs to prepare for? Jobs as researchers of the mathematical and natural scientific fundamentals of technology, jobs as researchers/developers of applicable technical principles and methods, or jobs of science-based innovative design of technical products and systems? Should there be an equal mixture of these three types or should one type dominate? The historical evolution of engineering into scientific technology could go further than only emulating physics, but should also advance beyond merely realizing new practical tools and systems. Similar questions can be addressed to many other applied disciplines, such as business administration, accountancy or marketing. These questions even apply to the older, 'higher' professions such as Law and Medicine and their many practical specializations. The answers, obviously, depend on many assumptions. For instance, the assumption that doctoral studies are principally meant to mould a generalistic scientific attitude, in contrast to the vision that they are essentially for contributing to a specific field of study. Even more ideas about this may prevail. The legislator c.q. government (whether or not financing the

doctorates), a university, a professor promotor and a 'promovendus', may have different preferences and goals. A variety of viewpoints can be expected when comparing different historical periods, scientific sectors and countries.

In the course of the twentieth century

First flow of (honorary) doctorates

The Technical High School Delft modestly started to 'produce' doctor's titles (see Figure 2). In the first *academic* year, 1905-1906, there was only one doctorate, during the next year four and in the following year two. Understandably, first of all new academic engineers had to be sown and harvested, in more and longer curricula. Till 1925 the annual doctor production oscillated around six and in the next twenty years it was about eleven per year. In the academic years 1943-1944 and 1944-1945, the last years of the German occupation during World War II, no dissertations appeared at Delft. The first one hundred was reached in 1925. In contrast, nowadays it takes only seven months to attain the next hundred doctorates. It is interesting to note that- in an overtaking manoeuvre, probably out of enthusiasm of finally belonging to higher education- at the Dies Natalis of 1907 the Technical High School awarded not less than seven honorary doctorates, whereas until then only two 'normal' doctor's titles had been granted. Among the new 'doctores honoris causa' were several prominent persons: the aforementioned dr. Kuyper, who had just resigned from the Cabinet, and the first Delft Rector Magnificus ir. Kraus, then being Minister of Public Works. Since this 'Pleiade' of seven honoured persons in 1907, Delft has been more restrictive in honorary doctorates. During the 96 years since 1905, a total of 94 have been given (in 41 years no honorary doctorate was bestowed and in 1947, 1955 and 1992 five). Five doctores honoris causa were Nobel laureates.

The ceremony

Belonging to the company of Dutch institutions of scientific education -although this was perceived differently for a long time by the older universities- also meant an adoption of the rules and protocol of the ceremony of the doctorate, as far as these were not already prescribed by Dutch law. The Diploma had and still has a text not in Latin but in Dutch, and as long as 'Delft' was a Technical High School and not a University, the public ceremony of defending the dissertation and additional propositions was ended by the Beadle's call: "The hour is over", which was later changed into: "Hora est." Comparatively speaking, the protocol of defence and handing over of the Bulla at Delft is rather strict and traditional. This often leads to surprise and appreciation of foreign guests in the Doctoral Committee. Up to 1925 the solemn occasions took place in the 'Prinsenkamer' in the building where the Academy started in 1842 (at 95 Oude Delft). Thereafter, during

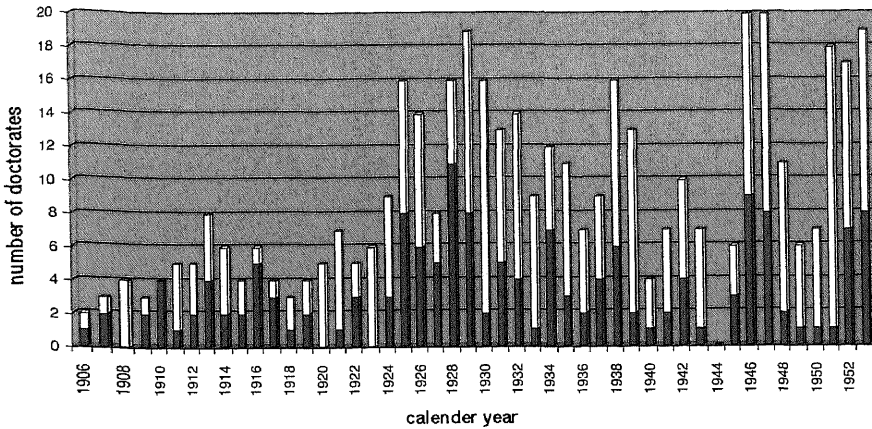


Figure 2: Number of doctorates per annum: ■ is number of doctorates cum laude

forty years, the doctoral ceremonies were held in the Senate Hall, 118 Oude Delft, the former Chapel of the Nuns of the Holy Ghost. From 1956 (with the doctor with serial number 708) they were held in the Senate Hall of the Aula building at the Mekelweg.

The Princen Room

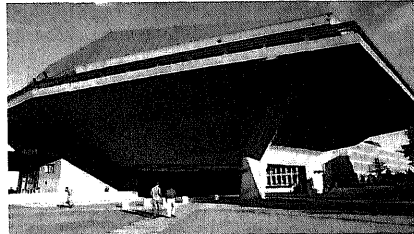


Senate Hall, 118 Oude Delft

95 Oude Delft



Aula, Mekelweg



Applicability and Direction of the Dissertations

On inspection of the titles of the first row of hundred dissertations from Delft, the impression arises that an important part typically belongs to a technical institute. Direct reference is sometimes given to machinery or vehicles (e.g., locomotive, cable net, bridge) or to commercial processes of manufacturing (e.g., vulcanisation, butter production). With a majority, however, it seems that the study could also have fitted in a Faculty of Mathematics and the Natural Sciences. During the first score of years subjects of study can also be found that are more of a historical, juridical or economic nature. Characteristic is the case in 1914 of the doctoral student H.J. Kiewiet de Jonge, M.Sc. in Architecture, who aspired for the doctorate through a study on "*Building Societies*", a study of a predominantly historical and policy nature. The intended supervisor was professor mr.dr. J.H. Valckenier Kips, the Delft professor of Constitutional Law (!). The Delft Senate (convention of all professors) judged the subject as being not of a technological nature. After ample discussion the dissertation was rejected and the reason given was that the promovendus could not give a convincing proof of past practical (architectural) performance. As was discussed above, there was no legal obligation for this proof. The tricky question in the background concerned, of course, not only the technological identity of Delft, but also the dispute whether some professors could be excluded from acting as a doctoral supervisor. This dispute pointed at all those with a non-technical or less technical professorial assignment and could even involve the mathematicians and the theoreticians of technology. This doctor-to-be did not receive his doctor's title, but a remarkable letter stating that his study would have made an excellent dissertation at a university! Nevertheless, later on professor Valckenier Kips supervised seven other doctorates (on housing shortage, relations between employers and employees, on the history of societies for the control of water works, etc., topics which would not have been to the standard of the Senate in 1914). In more recent days the professorial assignments cover much more breadth, including some on Humanities, Arts and Social Sciences, in pure form or as an aspect of a specific technical sector. Therefore, the overlapping with general universities has become quite acceptable for doctoral studies at Delft. The habit of forming the doctoral committee in such a way that also experts from outside Delft are present, could also guarantee the appropriate quality of dissertations of a less technical nature. Some justification can also be derived from the legislation, since 1986 prescribing that a Dutch doctorate is "undifferentiated", implying that also Universities of Technology do not give anymore a doctorate in Technological Sciences, but just the title "Doctor" without any further specification.

Background Statistics

For the sake of surveying and comparing, the editorial committee for this book decided upon a subject classification of the contents of dissertations at Delft. In total 19 fields of

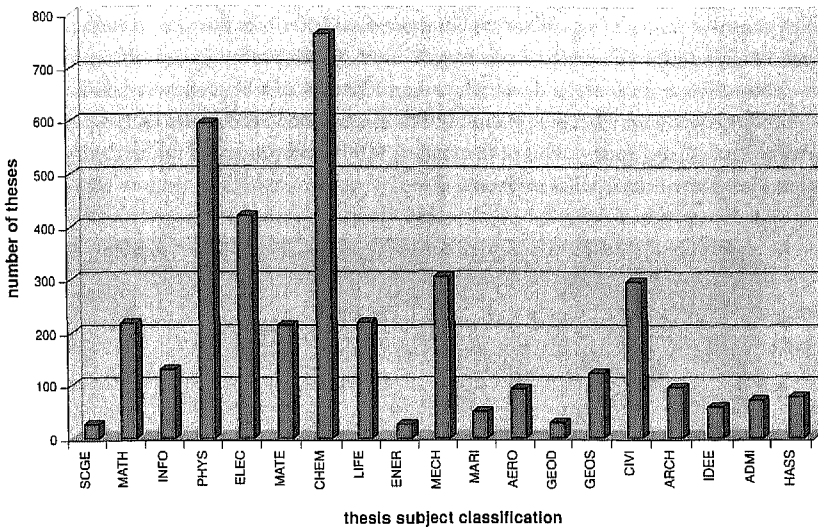


Figure 3: Classification of the total number of theses according to subject. For subject classification scheme see p. 57

scientific areas, mainly derived from the Central Library of Delft University, were distinguished (see p. 57). All, nearly four thousand, dissertations were classified accordingly, resulting into the frequency histogram of Figure 3. Almost 20 per cent of the theses deals with chemical (technological) topics and 16 per cent of the theses deals with subjects in physics. Two-thirds of the dissertations are to be found in six classes and 80 per cent is covered by nine classes. Subjects such as energy, but also subjects from engineering curricula with very high numbers of students for the Bachelor's- and Master's degrees, like Architecture, Industrial Design engineering, Aerospace engineering, turn out to be numerically negligible subjects (less than 2½ per cent). It should be emphasized that the subject classification is no indication of degree of scholarship, applicability or importance. The presence of the class HASS (humanities, arts and social sciences) being only two per cent could indeed confirm the repeatedly made statement that the Delft engineering education devotes very little attention to these approaches, in comparison with some other institutes, like, for instance, the MIT at Cambridge, MA. Indeed, the doctorates of Delft University of Technology have a profile that is characterized by natural and technological sciences. The Delft annual output of around 180 dissertations is part of a Dutch national output of about 2500 and of an annual output of 45000 in the European Union. The Dutch annual contribution to science is estimated about two per cent of the global output. A few more statistical data follow. In the period 1906-2001 in Delft over 3800 doctor's degrees were granted. In 982 doctorates, a quarter of the total number, more than

one promotor professor supervised and in more than 100 times this was an extra promotor from outside Delft University. There were more than 800 professors at Delft who took the promotorship once or several times. More than 130 of the Delft professors fulfilled a promotorship at least ten times. Professors Waterman and Van Bekkum each did this over seventy times! See Figure 4. Out of the total of 1100 Delft professors in the 20th century more than 300 never acted as promotor.

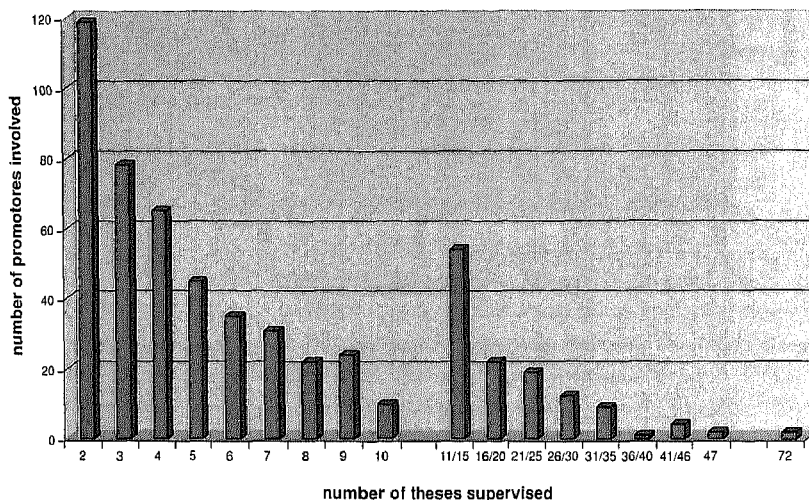


Figure 4: Promotor involvement in thesis supervision. Note: 2 promotores have supervised 72 theses each

Actual Issues

The Delft scientific output (of which the doctorates constitute a substantial part) is the product of a mature and efficient organization. In the course of a century several constants and variables can be distinguished. As we have observed, in Delft the question lingers, whether the doctorate is reconcilable with applications of technological sciences. The dissertation on a purely scientific, fundamental subject and a proof design are the poles between which preferences fluctuate. The modal tendency, however, is nearer to the first pole. Several other issues often receive attention in academical discussions and university policies concerning the doctorate. What value for professional practice can be attributed to a doctorate, also taking into account that after four to six years on the job the doctor engineer tends to work less at the frontier of science and is shifting his attention towards managerial responsibilities? Is the specific subject of the dissertation of any importance for the further career, often in a completely different field? Is five years of doctoral studies too long a period, also in view of the deceleration in the learning curve? Is the drop-out percentage during doctoral studies too large or to be seen as acceptably selective, or even

inevitable? Should doctoral studies, at least partly, be devoted to general scientific insights or exclusively to training in the research methods relevant to a specific subject? Should the result of a doctorate be an essential contribution to a selected and limited problem field or does active participation in the laboratory team sufficiently guarantee the training for a full-fledged scientist? Is the number of new doctorates too high in view of the costs or in relation to the number of academic vacancies; or is it too low, taking into consideration the growing role of science in a society of rapidly increasing complexity? It is proper that 'Academia' sometimes reflects on these issues and now and then endeavours to adjust its general policy. The personal, societal and universitarian values of doctorates are, however, that much convincing, that major changes in policy concerning the doctorate, let alone its abolition, are not to be expected. Also in Delft the doctoral tradition will be upheld in the 21st century, in a dignified manner and for innovating many qualities of engineering.

Changes after a century

In Conclusion

During the twentieth century, the evolution of the doctorates at the Delft institute for engineering education reflects the trends of technique and technological sciences at national and international level. In the period directly after 1906 a dissertation in Technology was a rarity, usually written in Dutch, dealing with a theoretical or practical problem, in national or colonial context and often preparing for a career at a High School or University. The prior Master's degree was in most cases one of Delft's own engineering curricula.

Almost a century later the dissertation is still a respectable performance, but it can no longer be called exceptional. The thesis is a published book (500-1000 copies), usually in the English language. In most cases the study concerns a problem that is oriented internationally: in literature, activities and coaching. Though the formative nature of the doctoral study of the individual remains to be recognized, the emphasis shifts towards a contribution by the 'promovendus' and the university to the stream of publications relating to a specific field of research. The regular position of the doctoral student has become a salaried, temporary, research assistant. In the majority of cases the prior degree still is one of the 25 engineering M.Sc.'s at the Dutch Universities of Technology. Understandably, those of Delft dominate. The proportion of foreign degrees, however, is becoming significant. Also non-technological studies often are a basis for admittance to doctoral studies at Delft.

In a study published by the Institute for Research of Scientific Education (IOWO, 1995) it was shown that the effort of several years to acquire the Dutch doctor's degree is not reflected by the salary or level of the position obtained, neither is it detrimental in those

respects. The effort is rewarding: the young doctor has access to more interesting functions with more facilities and freedom. The classical saying on science in general and on the doctorate in particular still applies: "Scientia nobilitat", meaning "Science ennobles".

Sources

- Bartelse, J., *Concentrating the minds; the institutionalisation of the graduate schools in Dutch and German higher education* (Diss.). Center for Higher Education Policy Studies, University of Twente, Lemma, Utrecht, 1999.
- Baudet, H., *De lange weg naar de Technische Universiteit Delft. I De Delfse Ingenieurschool en haar voorgeschiedenis. II Verantwoording, registers, tabellen, namenlijsten, bijlagen*. Sdu Uitgeverij, Den Haag, 1992.
- Bottema, O. et al., *Bibliografie van de dissertaties en lijst van promoties honoris causa, 1905-1966*. Staatsuitgeverij, 's-Gravenhage, 1967.
- College voor promoties van de Technische Universiteit Eindhoven, *Reglement promotie op Proefontwerp*. Handboek Sai, 10 Augustus 1999.
- Dirken, J.M., *Academische kleding; een ontwerp-functionele en historische bespiegeling* (Exit rede). Uitgave Technische Universiteit Delft, Delft, Mei 2001.
- Dirken, J.M., *The doctorate in historical and international perspective*. Paper Conf. Designing Universities of the Future, Neth. Inst. Adv. Studies, Wassenaar, July 2002 .
- Dirken, J.M., *Een eeuw met namen; de ingenieursstudies en afdelingen/faculteiten te Delft, 1905-2002*. Rapport Leiden, November 2001.
- Dijkstra, S.T. et al., *De waarde van de doctorstitel*. Symposium Technische Universiteit Delft, 6 September 2001.
- Frijdal, A. and J. Bartelse (eds.), *The future of postgraduate education in Europe*. Conference at Firenze, June 1996, Ed. DG XII European Communities. Euroscientia, Brussels, 1999.
- Groen, M., *Het wetenschappelijk onderwijs in Nederland, een onderwijskundig overzicht*, 3 delen. Technische Universiteit Eindhoven, Eindhoven, 1986.
- Hesseling, P., *Frontiers of learning; the Ph.D. Octopus*. Foris Publications, Dordrecht - Holland/Riverton-USA, 1986.
- Huizinga, J., *Verzamelde werken, deel VIII: Universiteit, wetenschap en kunst*, pp. 3-15 en 424-425. Tjeenk Willink, Haarlem, 1951.
- Kamp, A.F. (ed.), *De Technische Hogeschool Delft 1905-1955*. Staatsdrukkerij- en uitgeversbedrijf, 's-Gravenhage, 1955.
- PROMOOD, F.M. Powicke and A.B. Emden (eds.), *Het proefschrift, periodiek voor*

promovendi in Delft. Delft, Herfst 2000.

- Rashdall, H., *The Universities in Europe in the Middle Ages*. Oxford University Press, Oxford, 1958 (1st edition 1895).
- Ridder-Symoens, H. de (ed.), *A history of the university in Europe. I Universities in the Middle Ages*(1992). *II Universities in early modern Europe [1500-1800]*(1996)). Cambridge University Press, Cambridge, 1992 and 1996.
- Verger, J., *Les Universités en Moyen Age*. Presses Universitaires de France, Collection Sup, Section «L'Historien » , Vendôme, 1973.
- Waaijers, L.J.M. et al. , *2000 Delftse dissertaties, een bibliografie*. Uitgave Bibliotheek Technische Universiteit Delft, Delft, 1992.

**Fifty early doctorates and fifty recent ones;
change and continuity**

Objective and approach

During a lustral year, as now in 2002, the Delft's institute for engineering education is giving special attention to its history. In the 160 years since its founding in 1842 the institute has changed names, tasks and national status. In 1905 it became legally recognized as an institute for scientific engineering education. The recognition included the right to award the doctor's degree. Since then this degree has been bestowed more than 3800 times and a doctorate 'honoris causa' was awarded 94 times. How this prerogative, the 'ius promovendi', came about and how it was viewed upon by the established universities and by engineers, and how this prerogative was effected during the 20th century, has been told in the preceding chapter. In the following, some more details about the 'Delft doctorates' will be given. As the number of almost 4000 dissertations is too large to allow easy surveying of details, it was decided to compare two collections of fifty doctorates each. For obvious reasons, the first consists of the first fifty ones, taking place in the period 1906-1916. To contrast this early group, a recent fifty was chosen, namely the group of doctorates with serial numbers 3551-3600, covering the period September-November 2000. Another 200 new doctorates were added to Delft's score and to the list in this book, since. The 4000th doctorate will probably be reached in 2003. The following comparison of both sets of doctorates, the 'early group' versus the 'recent group' illustrates several developments and constants during the century of doctorates at Delft.

Differences in situation

A comparison of two groups of performances that are separated by many years, becomes the more meaningful when relevant differences in the background are taken into account. The decade 1906-1916 of the old group, saw a position and a level of the technological sciences and education that were substantially different from the situation at the end of 2000. The rates at which new doctorates issued, evidently differ, but another point of contrast is that about 1910 the doctor's degree for an engineer was a rarity, whereas nationally it nowadays happens daily, and in Delft about 180 times per annum. In the beginning period doctoral studies could only be entered by those having an M.Sc. degree in engineering from Delft, with the legal exception for a few foreign, similar institutes. In 2000 the majority of admitted candidates still has a Dutch M.Sc. degree in engineering, but a substantial number possesses some different degree, even sometimes outside the fields of science and technology. In a few cases a B.Sc. degree from one of the Dutch Higher Vocational Schools (HBO) is accepted for admission. Quite a few doctoral students now have received their prior degree from abroad. Nowadays, the 'promovendus', the doctoral candidate, is usually a research-assistant-trainee, a junior staff member employed by the

university. In the first decades of the twentieth century, however, *doctoral studies tended to be a part-time occupation, combined with daily duties as a teacher, an engineer in industry or an instructor at the Delft Technical High School. Up to 1922, to qualify as a teacher at the Gymnasium (the secondary school preparing for university education) a doctorate was usually required. It also seems that in those days a doctorate at Delft was more often considered a stepping stone towards a readership or a professorship. Nowadays a doctor's title is principally a recognition of being a full-fledged researcher. Maybe, in the old period a Doctor Engineer pursued a scientific career for longer, whilst a modern career tends to show a shift towards managerial responsibilities, even four to six years after receiving the doctor's diploma. About 1910 the usual career path was: Diploma five-year Higher Burgher School → Candidate in Engineering (B.Sc.) → Diploma Engineer (M.Sc.) → Doctorate. In modern times there is a broad diversity of secondary education and in degrees preceding the doctoral studies. The modal path now is something like: Diploma six-year Preparatory Scientific Education (VWO) → Diploma Engineer (M.Sc.) → Doctorate. What has changed in these paths, is the duration. The duration of the secondary school grew from 5 to 6 years, the engineering studies also from the usual 5 to 6, and the doctoral study from 4 to 5 years on the average. Each phase was stretched by one year. In 2002 the traditional European Bachelor's and Master's degrees will reappear, making the future career path and the path of 1910 more similar.*

Characteristics of the "fifty/fifty"

Upon comparing the two groups of doctorates the curiosity should, most preferably, be directed to aspects of scientific quality. For this, however, an objective yardstick that spans a century seems hardly feasible. As we shall see later on the *judicium 'cum laude'*, cannot be used as an objective measure. What remain are the characteristics that are objectively registered. Four sets of characteristics could be collected and listed. Three 'dimensions' concern the subject of the dissertation, the prior degree and the *judicium* respectively. A second set of variables is formed by personal characteristics of the young doctor: age, gender, admission based on either a foreign or a domestic diploma. A third set consists of formal properties of the dissertation: language, number of pages, number of additional propositions. The fourth group of dimensions regards the supervision and the examination: the Faculty of the promotor(s), whether there is one promotor or more, whether the promotor bears a doctor's degree himself and, finally, the composition of the doctoral committee. To add some more depth to the statistical data of the frequencies and averages of these 13 characteristics, some outlines of dissertations, examples from both periods, are first presented.

Some exemplary outlines

Nicolaas L. Söhngen, Chemical Engineer

Nicolaas L. Söhngen was the first person to acquire, at Delft and in the Netherlands, the degree of Doctor in Technological Science. This happened to be with honours: the distinction 'Cum Laude' was conferred. The defence of the thesis and the handing over of the diploma took place on Friday July 6, 1906, at "two and a half hours" in the Princen Room of the building at Oude Delft 95, where in 1843 the teaching of engineers at the Delft Academy had also started. The young doctor was 28 years of age, born at Oirschot in the province North-Brabant. He had successfully completed his study (1898-1902) for Chemical engineer (also called 'technologist' in those days) at the Delft Polytechnical School, the predecessor of the Technical High School. In 1904 and 1905 he was assistant at this 'PS'. The title of the thesis was: *The origin and disappearance of Hydrogen and Methane under the influence of the organic life**. It comprised 139 pages and was accompanied by a list of 12 propositions. In a short preface thanks are expressed to his teachers, among them the promotor and the Rector. Remarkably, no mention can be found of its being the first Delft thesis. The first and second chapters give a survey of the history and state of the art in the field of study. Thereafter, three chapters follow with his own investigations, and finally a summary of one page concludes the thesis. One gets the impression that the chemical formulas and experimental set-ups are rather elementary. A few drawings of the set ups are presented and four microscopic (600 x) photos of bacteria are shown. The subject has many practical applications. In the thesis, the literature is referred to through footnotes. The thesis is written in Dutch, but most of the citations are in German or French. The additional propositions show a broad content and all are of a chemical/technical nature. As an example, Proposition V: *It cannot be assumed as proven that large quantities of hydrogen can be found in the higher layers of the atmosphere*. The promotor was professor dr.ir. M.W. Beijerinck, technologist at the Department of Chemical Engineering and Mining. Since 1895 he taught microbiology at the Polytechnical School. During his subsequent career at the Technical High School (TH) till 1925 he fulfilled the promotorship three more times. The doctoral ceremony was chaired by the Rector Magnificus professor dr. S. Hoogerwerff, professor at the same department as the promotor. The doctoral committee consisted of seven members out of the Senate, the body of all the professors at the TH. Later on, from 1918 till 1934, Dr.ir. Söhngen was professor at the Dutch Agricultural High School at Wageningen, the Netherlands.

Frédéric C. Huygen, Mechanical Engineer

On March 26th 1907 the mechanical engineer Frédéric C. Huygen received the doctorate in Technological Science. He was then 25 years of age, born at Amersfoort in the province Utrecht. The subject of the thesis (172 pages) was: *On the working of exhausts with*

*) Dutch titles of theses and additional propositions have been translated as closely as possible.

locomotives. It is a study carried out in the practice of engineering. The promotor was professor ir. I. Franco of the 'Department D' (Mechanical Engineering, Shipbuilding and Electrotechnology), who was full-time professor in Mechanical Engineering from 1900 to 1916. This happened to be the only time he acted as promotor. The dissertation consists of four chapters: objective and approach, history of the problem, researching in the laboratory and in practice. Three thick envelopes with tables and drawings are added as appendices. In a preface thanks are expressed to, among others, the State Railways. German, French and English literature references are given in footnotes.

The subject concerns optimization of shape and size of the funnel of locomotives with regard to the steam and combustion products, and with pressure, flow and temperature as process variables. The calculations are modest and the design of the practical assessments is rather simple. Seven additional propositions accompany the thesis. Proposition III advocates the founding of a bureau of studies within the railway company. In 1916 we find this 'doctor engineer' in the oil industry.

Willem B. Peteri, Civil Engineer

As a third example we take the doctorate with ordinal number 30. On Saturday June 14, 1913 the doctor's degree was obtained by Willem B. Peteri, civil engineer. The dissertation's title was: *Governmental interventions in town building before the peace of Westphalia*. The 'young doctor' was 29 of age and was born in Deventer, in the province of Overijssel. His promotor was professor mr.dr. J.H. Valckenier Kips, of the Department of General Sciences, who till 1932 taught Constitutional and Administrative Law. He acted eight times as promotor. Among the eight 'promovendi' is not included the non-successful one of 1914, who has been mentioned in the previous chapter. The dissertation of Peteri had 293 pages, three sections and sixteen chapters, plus ten photographs. Several city plans can be found as appendices. At the end of the preface we find a bibliography, but further literature references appear as footnotes. Remarkable are the lengthy citations, sometimes comprising more than one page. The study is of a descriptive, historical nature and deals with the genesis of Dutch towns and related legislation, and concludes with the consequences regarding city planning and prosperity. Eighteen propositions have been added; the final one, at a length of half a page, praises the utility of teaching free drawing to engineers. Peteri was teacher at a secondary school and remained so after receiving his doctor's degree.

Felix A. Vening Meinesz, Civil Engineer

The civil engineer Felix A. Vening Meinesz received his doctorate on October 26, 1915. He was then 28 years of age. The title of his dissertation was: *Contribution to the theory of pendulum observations*. His promotor was professor dr.ir. J. Cardinaal of the Department of General Sciences, professor of pure and applied mathematics and theoretical mechanics.

The doctor's degree was awarded cum laude. The object of study of the thesis was the determination of the force of gravity as accurately as possible. The assignment was issued by the Governmental Committee on Measurements of Degrees and Level and the study was carried out in the Netherlands. The dissertation has 162 pages. There are 21 propositions, most of them being of a technological nature. Proposition X is, more or less, an exception: *Land reclamation in the Zuyderzee requires, more than with common reclamations, to take into account the aesthetic aspect concerning the division and parcelling of the areas within dikes*. In 1939 Vening Meinesz was nominated a part-time professor in Physical Geodetics at Delft, his principal positions being professor at the Utrecht University and Director of the National Metereological Institute. He retired from Delft in 1957.

After these four examples from the old group four short outlines of doctorates of the group from the year 2000 follow.

Mario Alvarez Grima, Master of Science in Geology

Mario Alvarez Grima, obtained his doctor's degree at Delft on September 18, 2000. The dissertation was named: *Neuro-fuzzy modeling in Engineering Geology: applications to mechanical rock excavation, rock strength estimation and geological mapping*. His earlier degree was an M.Sc. in geology from Cuba. Promotors were professor dr. A.K. Turner and professor dr.ir. P. van der Veer, both from the Faculty of Civil Engineering and Geosciences. Mr Grima tackles the problem that, in many engineering geological projects, the relationships among process variables are not exactly known. This hinders the use of crisp mathematical modelling tools based on the principles of physics or mechanics. In this thesis a modelling framework was developed to help the approach of these problems in an efficient and systematic way. The dissertation has 216 pages and nineteen additional propositions.

Elias A.J.F. Peters, Physics Engineer

On September 21, 2000 a doctorate was conferred cum laude to the physics engineer, Elias A.J.F. Peters, who had written the dissertation: *Polymers in flow modeling and simulation*. The thesis treats a number of subjects from the field of polymer technology, using a microscopic description of polymer liquids. The thesis counts 292 pages and all its chapters were previously published in first rate scientific journals. Ten propositions have been added. The promotor was professor dr.ir. B.H.H.A. van den Brule from the Faculty of Design, Engineering and Production.

Ronald van Oers, Engineer in Architecture

The M.Sc. in Architecture Ronald van Oers defended his thesis on September 22, 2000. The subject was: *Dutch town planning overseas during VOC and WIC [United Trading Company of*

the East Indies and West Indian Trading Company] rule, 1600-1800. Promotors were professor dr.ir. F.W. van Voorden and professor ir. J. van Heeling, both from the Faculty of Architecture. The dissertation offers an overview of the Dutch-founded settlements overseas, their origins, design and development, as well as insights into their planning and building process. Different typologies of the VOC and WIC are given and an outline of Dutch colonial town planning is described. Many maps from the seventeenth and eighteenth century illustrate this book of 219 pages. There are twelve additional propositions.

Luca Canali, Physical Engineer

Luca Canali, having an M.Sc. in physics from Italy, acquired the doctor's degree at Delft on November 4, 2000. His study was called: *Novel scanning probes applied to the study of nanostructures*. The aim of his study was to measure electronic properties of nanostructures and mesoscopic systems with the highest possible resolution, both in space and energy. Experiments are described regarding the combination of three key experimental methods: scanning tunnelling microscopy, low-temperature transport techniques and lithographic microfabrication. Sample preparation is crucial for scanning probe experiments, a few results of which are given. The dissertation has 162 pages. Nine propositions are added. The promotors were professor dr.ir. J.E. Mooij and professor dr.ir. L.P. Kouwenhoven, both from the Faculty of Applied Sciences.

Comparing contents (class of subject, prior degree and judicium)

Field of study

The subject classification scheme (see p. 57) of Delft's dissertations, which has been derived from the system used by the Central Library of Delft University of Technology and which has already been mentioned in the preceding chapter, was used for the old and the recent group. This resulted into the histogram of Figure 5. The comparison shows large differences between the groups. It is also remarkable that of the 19 classified fields, some are not present in either the old or the recent group and some are absent in both. The fifty dissertations of the period 1906-1916 are spread across 10 fields, although a clear dominance of chemistry can be found and, secondly, of the geosciences. In the group of autumn 2000 we find a more even distribution, with more classes (13) and less dominance of one class, although material science, electrical engineering and physics have the higher frequencies. The differences between the groups should be interpreted against the background that around 1910 many of the subjects of the classification did not yet exist in engineering, such as aerospace engineering or informatics. Furthermore, it should be

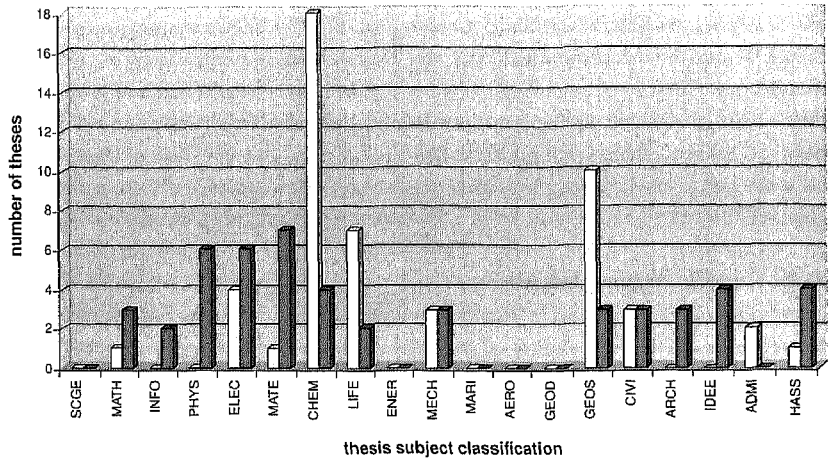


Figure 5: Classification of theses according to subject: □ 50 early doctorates, ■ 50 recent doctorates

realised that the time window of the recent group is rather narrow, allowing for the accidental absence of some of the fields. Both groups, however, may not be regarded as statistical samples; they do not represent a larger population of dissertations. The frequency distribution of all 3804 doctorates from the entire period of almost a century is shown in Figure 6.

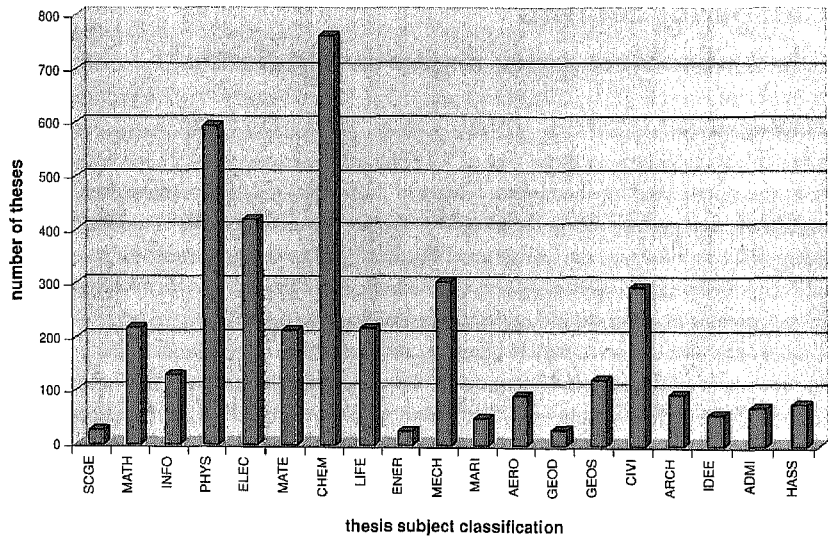


Figure 6: Classification of the total number of theses according to subject. For subject classification scheme see p. 57

Prior degree

Between the old and the recent periods many differences can be expected in the degrees, required for doctoral studies at Delft. In the beginning of the twentieth century only seven M.Sc. engineering curricula existed at Delft, compared to some 25 in the Netherlands today. Also, the legislation has broadened the admission requirements: any Master's degree, sometimes even a Bachelor's degree. Prior degrees may come from various institutes of higher learning, national or foreign. The comparison is shown in the following table.

Engineering M.Sc.	1906-1916	Autumn 2000	
		Engineering M.Sc.	Other Master's degree
Chemical eng.	24	2	
Mining eng.	11	-	
Civil eng.	7	3	*)
Mechanical eng.	7	2	
Electrical eng.	1	8	
Shipbuilding	-	-	
Architecture	-	3	
Appl. physics eng.	-	13	
Aerospace eng.	-	1	
Industr. Design eng.	-	1	
Materials eng.	-	1	
Eng. Unspecified	-	1	
Agricultural eng.	-	1	
		36	14
	50		50

*) 3 chemistry, 2 mathematics, 2 geology and 1 physics, biology, geography, psychology, education, history, law, each

The table shows that the differences are substantial indeed. Two of the seven old M.Sc. engineering degrees produced no doctorate in the beginning period and of these seven two are not represented in the recent group. In 2000 several new engineering degrees serve as starting points for doctoral studies, but also 14 of these 50 persons have degrees different from engineering. The 'new' engineering studies, mentioned in the table, appeared after 1916: applied physics engineering in 1929, aerospace engineering in 1943, industrial design engineering in 1964, materials engineering in 1987 and agricultural engineering at Wageningen University in 1917. A striking phenomenon is that the quantitative dominance, in the beginning, of chemical engineers has been substituted by that of applied

physics engineers in modern times. Another peak is found with electrotechnical engineers. The past century shows a proliferation in the degrees prior to the doctorate.

Judicium

The only special *judicium* of doctorates, that also leads to a special diploma, is the *Cum Laude* (with honours). In the old group of 50 the high number of 24 *cum laudes* is found. Among the recent 50 there are merely five degrees with honours. In the long period from 1906-1970 the annual average of degrees with honours at Delft is 30 per cent. In the period 1970-1982 there was the egalitarian regime '*sine laude*': no special praise was allowed. In 1982 the old tradition was restored. Allowing for local and historical variations, for Dutch universities the average of doctorates with the predicate *cum laude* is about 7 per cent. This data sufficiently shows that this *judicium* can hardly be relied upon as a yardstick for scientific quality, when applied across many years or across several disciplines.

Comparison of personal characteristics (age, gender, foreign diplomas)

Age

The average age of the 50 'young' doctors of the beginning period proves to be more than four years lower than the average age of the recent group. The precise mean values are 28 versus 33 years of age, standard deviations being 4 and 6 respectively. In the old period we find many new doctors of about 23 years old, but the modal age in 2000 was 30. We have described above how the duration at the secondary school and the factual duration of the engineering studies were stretched and that, on the average, it takes five years to complete a modern doctoral study in the Netherlands. Even taking this into account the mean value still needs an explanation. Perhaps this can partly be found in the increasing percentage of doctoral students having a prior degree from abroad, assuming that a wandering career may imply longer periods for transition and adjustment.

Gender

In the period of 1906-1916 there was only one '*promovenda*' at Delft. This first female doctor at Delft was the chemical engineer Jeanne E. van Amstel. Later on she became assistant at the TH. In the group of autumn 2000 the number of female doctors has increased to 8 out of 50. The percentage of 16 also more or less reflects the average numerical proportion of the female students in the Delft engineering studies. It is to be noted that the proportion largely depends on the numbers of a few studies such as architecture and industrial design engineering, which are, however, underrepresented

among the doctoral students at Delft. The percentage of 16 is still far from the ideal emancipatory balance.

Foreign diploma

Before 1917 a Delft M.Sc. in engineering was required to enter the doctoral studies in technological science, although the law made a few exemptions for similar foreign diplomas. Exemptions did not occur among the first group of fifty. One promovendus, born in Vienna, had a Delft M.Sc. and wrote his thesis in Dutch. Among the recent group of fifty, however, thirteen have been admitted on the basis of a foreign diploma. It cannot be concluded that in the beginning of the 20th century the Delft doctorate was a purely national matter. Six out of the first 50 were born in the Dutch East Indies. This 'colonial picture' gets even more colour when one finds that in 1916 ten of the Delft's doctors were employed in the Dutch East Indies and that two more were employed in other countries.

Comparing theses (language, pages, propositions)

Nationally it was a long standing tradition to publish the dissertation as a real, printed book. The tradition was, of course, immediately adopted by the new Technical High School, in 1906. The number of copies was rather small -we estimate it at around one hundred only- but the books contributed considerably to the growing number of Dutch centres of documentation concerning engineering. In recent times the theses are on an electronical basis too, if only for the printing procedure. The number of hard copies is much larger, usually around 500 or more. CD-ROMs for extra texts, figures or animations are annexed to the printed thesis in increasing numbers or serve outside the University as replacements for the printed edition.

Language

For comparative study of languages four suffice: Dutch, English, German and Afrikaans. In the old group the respective frequencies were: 45, 0, 4 and 1. Within the recent group they are: 3, 47, 0 and 0 respectively. It is obvious that the English language, the 'lingua franca' of science and technology, has almost completely replaced the Dutch language. Regulations still permit the publishing of a dissertation in a language different from English or Dutch, but this rarely occurs. The Delft doctoral ceremony, being the public defence of the thesis and the handing over of the diploma, takes place in German about once a year only. Rather often the ceremony is bilingual, alternating between English and Dutch, for the convenience of the foreign committee members and the audience, and also sometimes to give the candidate an easier linguistic basis during his defence. The shift towards English as

the language of instruction at Dutch universities actually seems to be preluded by this doctoral ceremony. See figure 7.

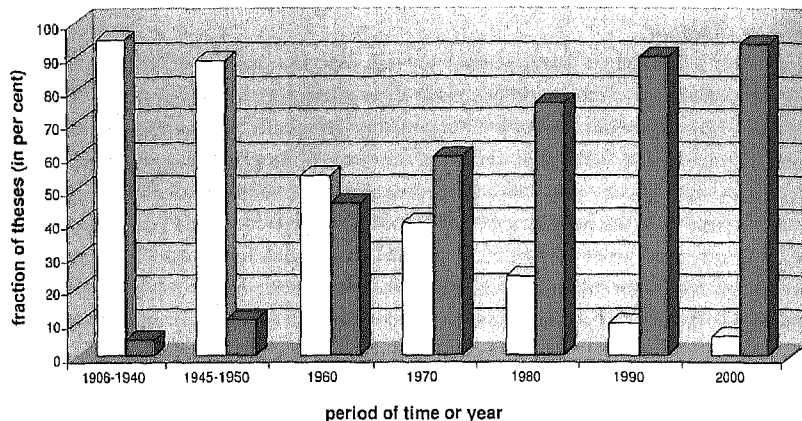


Figure 7: Thesis language: ■ = non-Dutch, □ = Dutch

Number of pages

In the beginning period, more often than not, the thesis had less than 80 pages. This does not happen in the recent period. The modal size, however, remains at 130 – 180 pages. It is difficult to conclude whether in the early days one had less to say or that the reporting was *done more concisely*, or whether it is just the other way round. The difference between averages is small and it is plausible that in both periods the personal styles of the promovendi and the promotors cause differences. What does count as a historical difference, however, is that presently the abundance of measuring and computing equipment yields relatively more numerical tables, graphics and statistical analyses, and the same applies to the use of photographs and colour. In the beginning of the 20th century, out of necessity one had to be content with written text only. In those days it never occurred that the largest part of the thesis consisted of chapters that had already been published or accepted for publication as articles in international scientific journals. In those days the pressure to publish in scientific journals at an early stage seems to have been experienced as less urgent. What sometimes can be found in the theses of the old period are neatly folded sets of technical drawings and hand-written tables in separate envelopes attached to the dissertation.

Number of additional propositions

In the old period it was obligatory to add several separate propositions to the thesis.

Nowadays a Dutch university is free to require additional propositions or not. Delft continues the old tradition. Extra propositions are remnants of the Mediaeval custom to emphasize the academic debating skills during the doctoral ceremony. In some periods of time the proof of being able to maturely participating in a learned debate, was the only thing that counted for the doctor's title. When propositions are required by university regulations, it is usually stated that some of them should not stem from the study in the thesis itself. This regulation refers to the traditional ideal that doctors have more intellectual abilities than just specific research skills. In general, the attention for the 'other' propositions tends to erode. Sometimes this results in propositions, that are neither academically defensible, nor pointedly formulated, but ventilate personal opinions in a way that does not witness the degree of wisdom to be expected from an average person of 32 years of age. In the last decades it is not unusual that the last proposition is some humoristic statement. In Delft this has indeed produced many amusing 'propositions', selections of which have been published in two booklets: *De beste stellingen zijn van hout* [1995] and *Het paard van Damocles* [2000] (edited by Bèta Imaginations, Rotterdam). Most of the puns in Dutch, just like the titles of the booklets cannot easily be translated. Upon comparing the number of propositions in the old and recent periods it becomes clear that in the first period in the majority of cases ten to twenty propositions accompany the thesis, whereas in 2000 this number has been reduced to in between seven and ten. The (exceptional) maxima are thirty and sixteen respectively.

Comparing supervision and examination (promoters, doctoral committee)

After a period of several years of preparation the dissertation is admitted for public defence by a doctoral committee, including the promotor(s). Then through learned questions and -as may be expected- ditto answers, a final test and judgement take place. During the preceding period the members of the committee have studied the dissertation and judged it as "defensible". Sometimes they have recommended some alterations in the text. The main task of the promotor, or promoters, has been earlier fulfilled: initiating the project, recruiting the candidate, more or less intensively coaching the project's design, planning its progress and the publishing. In Delft this procedure has remained unchanged during the twentieth century. In the old period, however, all the persons involved came from Delft, whereas now in most committees foreign guests participate. Also the Faculties, called Departments, were different from those in 2000. The number and names of the departments changed even during the 1906-1916 decade. For the sake of comparison we present the old period according to the situation of 1912-1916.

Faculty of the promotor(s)

During the decade from 1906 to 1916 there was more than one promotor for only two doctorates. This brings the total of professor promotor at 52 for the first period. In 2000 the presence of more than one promotor occurred more often, resulting in 68 promotor. In Delft the promotor carry an equal responsibility. For the sake of statistics we refer to them as first, second and third promotor, but this does not imply a ranking of involvement. In the two tables below it is shown to which Faculty the promotor belonged. The names of the Faculties do not adequately reflect the fields of study covered by the dissertations. The subject classification is given on p. 57. For example, of the eight promotor from the Department of General Sciences in the decade 1906-1916 three taught physics, two taught mathematics and one was teaching law. It is remarkable that in the old group half of the doctoral projects belonged to the Department of Chemical Engineering. In the table presenting 2000 a more even distribution can be seen, although Applied Sciences is predominant. Nowadays, the number of promotorships of professors is an important earning factor for a Faculty, because this 'output' also influences the budget and the size of the research staff. The latter hardly depends on the number of students in the engineering curricula. In the beginning of the 20th century doctoral projects were less important than teaching duties, but also in that period there seems to be almost no correlation between teaching duties and doctoral studies.

Period 1906 – 1916		
Department (Faculty)	number of promotor	
	1st	2nd
- General Sciences	8	2
- Civil Engineering	1	
- Architecture	-	
- Mechanical Engineering, Shipbuilding & Electrotechnique	7	
- Chemical Engineering	25	
- Mining	9	
Total: 52	50	2

Number of promotor per thesis

As can be seen in the tables, the presence of a second promotor was exceptional in the old group. In the group of 2000 this happens in one-third of the cases and for one doctorate there is even a third promotor. Additional promotor are often recruited from other

universities. Nowadays the responsibility for a thesis is more often shared among different institutions. This phenomenon could be due to an increased frequency of multidisciplinary subjects of study, requiring also specialists from outside Delft University to be an additional promotor. But it seems more likely that it is the change in customs within academia. In the old days the doctorate was mainly a matter of the Department. In 2000 we see an eagerness to co-operate and to participate in world-wide networks, as the special, international field of study better identifies a researcher than a single Faculty or University. Later on we shall see this impression confirmed by an analysis of the composition of the doctoral committees.

Autumn 2000			
Faculty	number of promoters		
	1st	2nd	3rd
- from outside Delft	3	6	1
- Architecture	3	1	
- Civil Engineering & Geosciences	4	2	
- Information Technology & Systems	8		
- Aerospace Engineering	-		
- Design, Engineering & Production	7	3	
- Technology, Policy & Management	6	2	
- Applied Sciences	19	3	
Total: 68	50	17	1

Doctor's degree of promotor

In the early period of Delft's *ius promovendi* research activities were relatively few, and only slowly increasing. The responsibility for this development was in the hands of the body of professors, of whom most had, understandably, not obtained a doctor's degree themselves. Many of those who did have a doctor's title came from outside the field of engineering. Their contribution was indispensable for the broadening and founding of engineering sciences. Comparing both periods, the percentage of promoters not having the doctor's title went down from 27% to 10%. The percentage of promoters not being engineer themselves changed only little, from 43% to 38%. It should be realized that in both groups some professors appear as promotor more than once. Of the early group professor dr.ir. J. Böeseken had a share of nine doctorates. End 2000 the contributions were more equal, in the sense that in the latter group only three professors acted twice as promotor.

Academic titles of promotor:		
	1906-1916	Autumn 2000
Dr.Ir.	19	35
Dr. otherwise	18	26
Ir.	10	7
Other	4	-
Total:	51	68

Composition of doctoral committees

The responsibilities and composition of doctoral committees are laid down in the Doctoral Regulations of the University. In the beginning period a doctoral committee consisted of Delft professors only, and most of them came from the Department of the promotor. In modern times it is not unusual that some members are not (full) professor and that members also come from other universities, often from abroad. Since 1988 in Delft the role of 'adjunct promotor' was created for those who actively coached a doctoral study but had not the rank of professor (though in international comparison their rank is 'associate professor').

Number of members of Doctoral Committees		
	1906-1916	autumn 2000
6	-	1
7	10	10
8	19	38
9	16	1
10	4	-
11	1	-
Total:	50	50

The most common size of the doctoral committee remains eight. The acting Rector Magnificus, chairing the ceremony, is included in this number. In the old period it used to be the Rector himself, whereas in the last decades it usually is a member of the 'Committee for substituting the Rector during doctoral ceremonies'. In recent days the composition of the doctoral committees does vary quite a bit. In the most common composition (ten times) there are two members from outside Delft, but not from universities abroad. It also occurs (18 times) that all outside members are from foreign universities. For the total of these fifty doctorates we count 389 committee members, of whom 105 come from outside

Delft University of Technology and of these guests 49 come from abroad. Sometimes guests also come from research institutes outside universities, from industry or governmental agencies. In those cases a doctor's title is required for participating in doctoral committees and ceremonies. In general, the compositions of the doctoral committees reflects the open, international and multidisciplinary character of modern doctoral studies.

Composition doctoral committees Autumn 2000:		
Number of Doctoral Committees	members from outside Delft	members from a foreign university
1	-	-
3	1	-
7	1	1
10	2	-
5	2	1
9	2	2
2	3	-
5	3	1
4	3	2
2	3	3
1	4	-
1	4	2
50		

Summary of the comparisons

The preceding exercise demonstrates that, on the one hand, the doctorates in Delft remained similar in many respects. The exercise was based on juxtaposition of two groups of fifty doctorates each, one from the decade 1906-'16 and the other from the autumn of 2000. In the recent period we have seen a broader variety of the scientific areas covered by the theses, a wider diversity in the prior degrees and also a substantial number of doctoral students coming from abroad. On the average, 'young doctors' are four years older when obtaining the doctor's degree. Also the number of women obtaining a doctor's title is increasing. As far as language is concerned, the shift from Dutch to English is remarkable, see Figure 7. There is not much change in the average number of pages of dissertations, but there is a substantial increase in tables, graphs and illustrations. Nowadays the distribution of copies is much wider and larger. The number of literature references has grown considerably and their place changes from footnotes to a bibliography at the end of the

thesis or chapters. A recent phenomenon is to include, as chapters in the thesis, articles published elsewhere. In the old group the number of additional propositions tended to be larger. Recently, the dual promotorship occurs rather frequently and the position of an adjunct promotor has also been introduced. At the beginning of the 20th century it occurred more frequently that a promotor bore no doctor's title himself. The percentage of promotors not being engineer stayed at around 40 per cent. Changes may be found in the composition of the doctoral committees: more non-professors, more guests from outside Delft University and from abroad. The doctoral study, and also the ceremony, have become more international and it is supported by members of a world-wide, specific network. The doctoral study has also become a full-time job for the doctoral students, rather than a part-time job. The preparation of a thesis has on the average increased from four to five years. The impression suggests itself that in the course of a century the doctorate at Delft, its admission as well as the recognition of the doctor being a full-fledged researcher, has maintained its indisputably high quality.

**Extract from the register of doctorates at Delft
University of Technology 1906 through 2001**

Each item of the following list mentions the full name of the doctor, the title of the thesis, a subject classification code, the date of the thesis defence and the name(s) of the promotor(s) and concludes with the predicate “cum laude”, whenever conferred.

A list of the subject classification codes follows.

SCGE Sciences - General
MATH Mathematics & Theoretical Mechanics
INFO Informatics & Computer Science

PHYS Physics & Astronomy
ELEC Electrical Engineering & Electronics
MATE Materials Science

CHEM Chemistry & Chemical Engineering
LIFE Environmental & Life Sciences
ENER Energy

MECH Mechanical Engineering
MARI Maritime Engineering
AERO Aerospace Engineering

GEOD Geodesy
GEOS Geoscience
CIVI Civil Engineering

ARCH Architecture & Urban Planning
IDEE Industrial Design Engineering
ADMI Administration & Management

HASS Humanities, Arts & Social Sciences

- 1 **Nicolaas Louis Söhngen**, Het ontstaan en het verdwijnen van waterstof en methaan onder den invloed van het organische leven, LIFE, 1906.07.06, cum laude, *prof.dr.ir. M.W. Beijerinck*
- 2 **E.H.M. Beekman**, Geschiedenis der systematische mineralogie, GEOS, 1906.11.15, *prof.dr. G.A.F. Molengraaff*
- 3 **Frédéric Constant Huygen**, Over de exhaustwerking bij locomotieven, MECH, 1907.03.26, cum laude, *prof.ir. I. Franco*
- 4 **Gerard de Gelder**, De berekening, de bouw en het bedrijf van het kabelnet der gemeente Amsterdam, ELEC, 1907.06.20, *prof.ir. C. Feldmann*
- 5 **Gerrit van Itersen jr.**, Mathematische und mikroskopisch-anatomische Studien über Blattstellungen nebst Betrachtungen über den Schalenbau der Miliolinen, LIFE, 1907.07.10, cum laude, *prof.dr.ir. M.W. Beijerinck*
- 6 **Jan Karel van Gelder**, Over de toepassing van de centrifugaalkracht voor de scheiding en zuivering van erts en kolen, GEOS, 1908.04.02, *prof.ir. C.J. van Loon*
- 7 **Nicolaas Koomans**, Over den invloed der zelfinductie in telefoongeleidingen, ELEC, 1908.04.10, *prof.ir. C.L. van der Bilt*
- 8 **Pieter Tesch**, Der Niederländische Boden und die Ablagerungen des Rheines und der Maas aus der jüngeren Tertiär- und der älteren Diluvialzeit, GEOS, 1908.10.26, *prof.dr. G.A.F. Molengraaff*
- 9 **Pieter Nicolaas Degens**, Legeeringen van tin en lood, MATE, 1908.11.23, *prof.dr. W. Reinders*
- 10 **Jan Willem van Dijk**, Parallelbedrijf van Wisselstroommachines, ELEC, 1909.06.25, *prof.ir. C. Feldmann*
- 11 **Abraham Wijnberg**, Over rietwas en de mogelijkheid zijner technische winning, LIFE, 1909.06.28, cum laude, *prof.dr.ir. G. van Itersen*
- 12 **Frits Fontein**, Onderzoekingen in verband met de afscheiding van foezelolie uit alcoholische vloeistoffen, CHEM, 1909.10.22, cum laude, *prof.dr. L. Aronstein*
- 13 **Josef Ignaz Julius Maria Schmutzer**, Bijdrage tot de kennis der postcenomane hypoabyssische en effusieve gesteenten van het westelijk Müller-gebergte in Centraal-Borneo, GEOS, 1910.01.26, cum laude, *prof.ir. J.A. Grutterink*
- 14 **Johan Francois Barthold van Hasselt**, Bijdrage tot de kennis der constitutie van het bixine, CHEM, 1910.05.30, cum laude, *prof.dr.ir. J. Böseken*
- 15 **Egbert Cornelis Nicolaas van Hoepen**, De bouw van het Siluur van Gotland, GEOS, 1910.06.24, cum laude, *prof.dr. H.G. Jonker*
- 16 **Hendrik Albertus Brouwer**, Oorsprong en samenstelling der Transvaalsche nepheliensyenieten, GEOS, 1910.10.12, cum laude, *prof.dr. G.A.F. Molengraaff*
- 17 **Bernard Willem van Eldik Thieme**, Het laurinezuur en de laurinen, CHEM, 1911.02.20, cum laude, *prof.dr.ir. J. Böseken*
- 18 **Theodorus van der Waerden**, Geschooldheid en techniek. Onderzoek naar den invloed van arbeidssplitsing en machinerie op de mate van vereischte oefening en bekwaamheid der arbeiders, HASS, 1911.03.29, *prof.mr. D. van Blom*
- 19 **Wilhelm Jacques Franck**, Somatische kern- en celdeling en microsporogenese bij het suikerriet, LIFE, 1911.04.27, *prof.dr.ir. G. van Itersen*

- 20 **Willem Meyeringh**, Studie over de factoren op het vochtgehalte der boter van invloed, CHEM. 1911.06.24, *prof.dr. W. Reinders*
- 21 **Abraham Louis Willem Euduard van der Veen**, Physisch en kristallografisch onderzoek naar de symmetrie van diamant, CHEM. 1911.07.07, *prof.ir. J.A. Grutterink*, *prof.dr. M. de Haas*
- 22 **Ludolph Reinier Wentholt**, Stranden en strandverdediging, CIVIL. 1912.02.15, *prof.ir. W.K. Behrens*
- 23 **Jeanne Egbertine van Amstel**, De temperatuursinvloed op physiologische processen der alcoholgist, CHEM. 1912.03.29, cum laude, *prof.dr.ir. G. van Iterson*
- 24 **Paulus Martinus Verhoeelcx**, Proeve eener theorie van het roteerend magnetisch veld, ELEC. 1912.04.22, cum laude, *prof.ir. J.A. Snijders*, *prof.dr. G. Schouten*
- 25 **Johann Gerhard Wilhelm Sieger**, Het aethyleeren van chloorbenzol, CHEM. 1912.06.20, *prof.dr.ir. J. Böeseke*
- 26 **Hendrik Jacobus Prins**, Bijdrage tot de kennis der katalyse. De katalytische werking van aluminiumhalogeniden, CHEM. 1912.10.23, *prof.dr.ir. J. Böeseke*
- 27 **Hein Israël Waterman**, Over eenige factoren, die de ontwikkeling van Penicillium glaucum beïnvloeden, CHEM. 1913.01.20, cum laude, *prof.dr.ir. J. Böeseke*
- 28 **Simon Cornelis Johannes Olivier**, Snelheidsmetingen bij de reactie van Friedel en Crafts, CHEM. 1913.02.03, cum laude, *prof.dr.ir. J. Böeseke*
- 29 **Johan Herman Adolf Haarman**, Hoekijzerverbindingen in het bijzonder die der langs- aan dwarsdragers in bruggen, CIVIL. 1913.02.24, *prof.ir. J. Kloppe*
- 30 **Willem Barent Peteri**, Overheidsbemoeiingen met stedeboew tot aan den vrede van Munster, ADMI. 1913.06.14, *prof.mr.dr. J.H. Valckenier Kips*
- 31 **Willem Carel Klein**, Tektonische und stratigraphische Beobachtungen am Südwestrande des Limburgischen Kohlenreviers, GEOS. 1913.06.24, cum laude, *prof.dr. H.G. Jonker*
- 32 **Jan van Hettinga Tromp**, Het sociale arbeidscontract. Beschouwingen over de bemoeiing van de Overheid met arbeidsvoorwaarden, in verband met de practijk van het Amsterdamsche Werklieden-Reglement, ADMI. 1913.06.28, *prof.mr. D. van Blom*
- 33 **Nicolaas Jacobus Aloysius Taverne**, De oxydatie en de polymerisatie van sojaolie, CHEM. 1913.11.03, *prof.dr. A.M.A.A. Steger*
- 34 **Jan Rueb**, Over het verwerken van tinertsen, GEOS. 1913.11.05, cum laude, *prof.ir. S.J. Vermaes*
- 35 **Albert Jan Kluyver**, Biochemische suikerbepalingen, CHEM. 1914.05.15, cum laude, *prof.dr.ir. G. van Iterson*
- 36 **Johan August Heymann**, De voeding der oester, LIFE. 1914.05.20, *prof.dr.ir. M.W. Beijerinck*
- 37 **Emile Benjamin Wolff**, Temperatuurmetingen in een dieselmotor, MECH. 1914.06.05, *prof. P. Meyer*
- 38 **Jan Arnoldus Schouten**, Grundlagen der Vektor - und Affinoranalysis, MATH. 1914.06.17, cum laude, *prof.dr.ir. J. Cardinaal*
- 39 **Jan Daniël Ruys**, Drinkwaterreiniging met hypochlorieten, LIFE. 1914.06.23, *prof.dr. J.G. Sleeswijk*

- 40 **Cornelis Johan van Nieuwenburg**, De stabiliteit der mercurohalogeniden, CHEM, 1914.10.16, *prof.dr. W. Reinders*
- 41 **Pieter Eduard Verkade**, Hydratatie van organiese zuuranhydrieden, CHEM, 1915.03.05, cum laude, *prof.dr.ir. J. Böseken*
- 42 **Willem David Cohen**, Reductie van aromatische ketonen, CHEM, 1915.03.19, *prof.dr.ir. J. Böseken*
- 43 **Felix Andries Vening Meinesz**, Bijdragen tot de theorie der slingerwaarnemingen, MATH, 1915.03.26, cum laude, *prof.dr.ir. J. Cardinaal*
- 44 **Louis Guillaume den Berger**, Landbouwscheikundig onderzoekingen omtrent de irrigatie op Java, LIFE, 1915.10.13, *prof.dr. W. Reinders*
- 45 **Jan Versluys**, De capillaire werkingen in den bodem, GEOS, 1916.02.16, cum laude, *prof.dr. M. de Haas*
- 46 **Frans Goudriaan**, Dissociatie-evenwichten in het stelsel metaal-zwavel-zuurstof. Bijdrage tot de theorie der roostprocessen, CHEM, 1916.05.11, cum laude, *prof.dr. W. Reinders*
- 47 **Cornelis Johannes de Groot**, Radio-telegrafie in de tropen, ELEC, 1916.06.05, cum laude, *prof.ir. C.L. van der Bilt*
- 48 **Rudolf Adriaan Weerman**, Over de inwerking van natriumhypochloriet op amiden van onverzadigde zuren en oxyzuren, CHEM, 1916.07.07, cum laude, *prof.dr.ir. J. Böseken*
- 49 **Arnold van Rossem**, Bijdrage tot de kennis van het vulcanisatieproces, CHEM, 1916.09.29, cum laude, *prof.dr.ir. G. van Iterson*
- 50 **Christiaan Theodoor Groothoff**, De primaire tinertsafzettingen van Billiton, GEOS, 1916.10.27, *prof.dr. G.A.F. Molengraaff*
- 51 **Arie Korevaar**, Studies over het mechanisme van het hydreren, CHEM, 1917.06.01, cum laude, *prof.dr. A.M.A.A. Steger*
- 52 **Willem Frederik Gisolf**, Beschrijving van een microscopisch onderzoek van gabbro's en amfibolieten, herkomstig van Midden-Celebes, GEOS, 1917.06.26, *prof.ir. J.A. Grutterink*
- 53 **Lodewijk Hamburger**, Over licht-emissie door gassen en mengsels van gassen bij elektrische ontladingen, CHEM, 1917.07.04, cum laude, *prof.dr. W. Reinders*, *prof.dr. L.H. Siertsema*
- 54 **Johan Philip Pfeiffer**, De waarde van wetenschappelijk onderzoek voor de vaststelling van technische eigenschappen van hout, CHEM, 1917.09.14, cum laude, *prof.dr.ir. G. van Iterson*
- 55 **August Louis van Scherpenberg**, Onderzoekingen naar de constitutie van het euxanthogeen, de moederstof van het Indisch geel, CHEM, 1918.06.21, *prof.dr.ir. G. van Iterson*
- 56 **Pieter Persant Snoep**, Technisch-hygiënische beschouwingen over de economie van den industrieelen arbeid, HASS, 1918.11.08, *prof.dr. J.G. Sleetwijk*, *prof.dr. J.G.C. Volmer*
- 57 **Ursul Philip Lely**, Waarschijnlijkheidsrekening bij automatische telefonie, MATH, 1918.11.22, cum laude, *prof.dr. F. Schuh*
- 58 **George Egbert Moeffelman**, De acetylering van nitrophenolen onder den in vloed van eenige katalysatoren, CHEM, 1919.05.02, *prof.dr.ir. J. Böseken*
- 59 **Christiaan van Loon**, Stereochemie der cyclopentaan- en der hydrindeen-1.2-diolen, CHEM, 1919.07.04, cum laude, *prof.dr.ir. J. Böseken*

- 60 Johanna Hendrika Maria Manders**, Application of direct analysis to pulsating and oscillating phenomena, ELEC. 1919.07.07, cum laude, *prof.dr.ir. J.A. Schouten, prof.ir. C. Feldmann*
- 61 Adriaan Willem Coster van Voorhout**, Condensatie producten van phenol en formaldehyde, CHEM. 1919.10.17, *prof.dr.ir. J. Böeseke*
- 62 Frederik Ernst van Haeften**, De bereiding van de trichloornitro- en de trinitrobenzolen en de inwerking van natriummethylaat daarop, CHEM. 1920.04.15, *prof.dr.ir. J. Böeseke*
- 63 Willem Martinus Meijer**, De stoomturbine als voortstuwingswerktuig voor koopvaardij schepen, MECH. 1920.06.23, *prof.ir. J.C. Dijkhoorn, prof.dr. M. de Haas*
- 64 Hendrik Gerrit van Beusekom**, Beschouwingen over den woningnood, HASS. 1920.06.24, *prof.mr.dr. J.H. Valckenier Kips*
- 65 Charles Edward Adrianus Maitland**, Staatstelefoon-exploitatie, ELEC. 1920.06.25, *prof.ir. C.L. van der Bilt, prof.dr. J.G.C. Volmer*
- 66 Jacob Pohlmann**, De scheikunde der eiwitten en de physiologische polypeptidensynthese, LIFE. 1920.07.05, *prof.dr. J.G. Sleeswijk*
- 67 Cornelis Willem Lely**, De invloed van de Zuiderzee op de stormvloedstanden langs de Friesche kust, CIVI. 1921.02.21, cum laude, *prof.ir. G.H. Vries Broekman*
- 68 Hendricus Couvert**, De configuratie van eenige suikers, CHEM. 1921.02.22, *prof.dr.ir. J. Böeseke*
- 69 Frederik Charles Gerretsen**, Een onderzoek naar de nitrificatie en denitrificatie in tropische gronden, LIFE. 1921.02.24, *prof.dr.ir. M.W. Beijerinck, prof.dr. W. Reinders*
- 70 Jan Joachim Borren**, Een nieuwe methode ter bepaling van grootte en richting der stroomsnelheid van vloeistoffen; beschouwingen over de verschijnselen in de doode ruimte van een centrifugaalpomp, MECH. 1921.05.18, *prof.ir. J.C. Dijkhoorn, prof.dr. J.M. Burgers*
- 71 Frederik Willem Hisschemöller**, De evenwichten der permutieten, CHEM. 1921.06.09, *prof.dr. F.E.C. Scheffer*
- 72 Carel Willem Schonebaum**, Ozoniseren van fabrieksproducten der suiker-industrie, CHEM. 1921.11.16, *prof.dr.ir. H.I. Waterman*
- 73 Popko van Groningen**, Evenwichten in de stelsels ijzer-koolstof-zuurstof en ijzer-waterstof-zuurstof, CHEM. 1921.12.21, *prof.dr. W. Reinders*
- 74 Emile van Thiel**, Acetyleringen met azijnzuuranhydried onder invloed van katalysatoren, CHEM. 1922.03.24, *prof.dr.ir. J. Böeseke*
- 75 Henri George Derx**, Bijdrage tot de kennis van den ruimtelijken bouw van atoomringsystemen, CHEM. 1922.05.10, cum laude, *prof.dr.ir. J. Böeseke*
- 76 Frans Cornelis van Heurn**, De gronden van het cultuurgebied van Sumatra's Oostkust en hunne vruchtbaarheid voor cultuurgewassen, LIFE. 1922.07.03, *prof.dr.ir. G. van Iterson*

- 77 **Han Tiauw Tjong**, De industrialisatie van China, HASS, 1922.09.13, cum laude, *prof.mr.dr. J.H. Valckenier Kips*
- 78 **Jan Goudriaan jr.**, De doelmatigheid van de Amsterdamsche broodvoorziening, HASS, 1922.11.17, cum laude, *prof.dr. J.G.C. Volmer*, *prof.ir. J.P. de Voûys*
- 79 **Carl Adolph Hugo von Wolzogen Kühr**, Onderzoekingen aangaande de mikroflora aanwezig in normaal en sereziek suikerriet, LIFE, 1923.06.06, *prof.dr. A.J. Kluyver*
- 80 **Frederik Jan Nellensteyn**, Bereiding en constitutie van asphalt, CHEM, 1923.07.05, *prof.dr.ir. H.I. Waterman*
- 81 **Jacob Heslinga**, Onderzoekingen over de quantitative bepaling van chloor, broom en jodium in organische verbindingen, CHEM, 1923.09.12, *prof.ir. H. ter Meulen*
- 82 **Johannes Fredericus Bertram**, IJzeren ophaalbruggen, CIVI, 1923.09.14, *prof.ir. N.C. Kist*
- 83 **Wilhelm Heinrich Hetzel**, Bijdrage tot de geologie van de Sierra Alhamilla (provincie Almeria), GEOS, 1923.10.10, *prof.dr. G.A.F. Molengraaff*, *prof.dr.ir. H.A. Brouwer*
- 84 **Hendrina Johanna de Wijs**, Samenstelling en bestendigheid van eenige metaal-ammoniakionen, CHEM, 1923.10.16, *prof.dr. F.E.C. Scheffer*
- 85 **Samuel Isidoor Vles**, Reactiesnelheid van zuurstof met oplossingen van eenige anorganische zouten, CHEM, 1924.01.25, cum laude, *prof.dr. W. Reinders*
- 86 **Petrus Hendrik Hermans**, Onderzoek naar de ruimtelijke configuratie van enkele glykolen; een kritiese beschouwing over de betekenis der boorzuur- en acetonverbindingen voor de stereochemie, CHEM, 1924.03.19, cum laude, *prof.dr.ir. J. Böseken*
- 87 **Dirk Frederik Slothouwer**, Bouwkunst der Nederlandsche renaissance in Denemarken, ARCH, 1924.03.26, *prof.ir. J.A.G. van der Steur*
- 88 **Maximiliaan Lodewijk van der Schaaff**, Critische beschouwingen betreffende de wettelijke bepalingen tot bescherming van den industrieelen eigendom, meer in het bijzonder in Nederland, ADMI, 1924.05.14, *prof.mr.dr. J.A. Veraart*
- 89 **Jacobus Meulenhoff**, Bijdrage tot de kennis van organische boriumverbindingen, CHEM, 1924.05.21, *prof.dr.ir. J. Böseken*
- 90 **Hijman Limburg**, Onderzoekingen over emulsies, CHEM, 1924.06.11, *prof.dr. W. Reinders*
- 91 **Jan Coops jr.**, De stereoisomerie der wijnsteenzuren in verband met de complexvorming met boorzuur, CHEM, 1924.06.18, cum laude, *prof.dr.ir. J. Böseken*
- 92 **Bernard Gerard van der Hegge Zijnen**, Measurements of the velocity distribution in the boundary layer along a plane surface, MECH, 1924.10.09, *prof.dr. J.M. Burgers*
- 93 **Wessel Wessel**, De begrippen "werkwijze", "stof" en "voortbrengsel" in het Nederlandsche octrooirecht., ADMI, 1924.10.30, *prof.mr.dr. J.A. Venaart*

- 94 **Martinus Jacobus Willem Roegholt**, Het stadsgewest. Een studie over den trek naar de steden en zijn gemeentelijk-economische gevolgen, HASS, 1925.04.29, *prof.dr. J.G.C. Volmer, prof.mr.dr. J.H. Valckenier Kips*
- 95 **Cornelis Pieter Adriaan Zeijlmans van Emmichoven**, Geologische onderzoekingen in de Sierra de los Filabres (provincie Almeria, Spanje), GEOS, 1925.05.20, cum laude, *prof.dr.ir. H.A. Brouwer*
- 96 **Hermanus Hartman**, De verbrandingswarmte van homologe en isomere dicarbonsuren en dicarbonzuuranhydriden, CHEM, 1925.06.10, *prof.dr.ir. J. Böeseken*
- 97 **Hubert ter Meulen**, Onderzoekingen over de bepaling van zwavel in anorganische verbindingen, CHEM, 1925.06.17, cum laude, *prof.ir. H. ter Meulen*
- 98 **Jeremias van Dorp**, De analyse der uitlaattassen voor de bepaling van het luchtverbruik van een automobielmotor, MECH, 1925.06.23, *prof. P. Meyer*
- 99 **Henri George Nolen**, Transformatorvelden. Een onderzoek der magnetische velden in transformatoren en van den invloed dien deze op het net uitoefenen, ELEC, 1925.07.01, cum laude, *prof.ir. C. Feldmann*
- 100 **Bartholomeus Lambertus Voskuil**, Onderzoek naar de bruikbaarheid van het hoogtevliegtuig voor verkeersdoeleinden, AERO, 1925.08.26, *prof. P. Meyer, prof.dr. J.M. Burgers*
- 101 **Henri Caspar Joseph Hubert Gelissen**, De constitutie der diacylperoxyden en hun betekenis voor de chemische synthese, CHEM, 1925.09.28, cum laude, *prof.dr.ir. J. Böeseken*
- 102 **Willem de Visser**, Het kalandereffect en het krimpeffect van onge vulcaniseerde rubber, CHEM, 1925.10.01, cum laude, *prof.dr.ir. G. van Iterson*
- 103 **George Bernard Peppelman van Kampen**, Een onderzoek naar de chemische samenstelling van vergiftige beukennotenkoek, CHEM, 1925.10.07, *prof.dr.ir. J. Böeseken*
- 104 **Hendrik Willem Hofstede**, Het pandanblad als grondstof voor de pandanhoedenindustrie op Java, LIFE, 1925.10.16, *prof.dr.ir. G. van Iterson*
- 105 **Franciscus Visser 't Hooft**, Biochemische onderzoekingen over het geslacht Actobacter, LIFE, 1925.11.03, *prof.dr. A.J. Klayver*
- 106 **Pieter Honig**, Vergelijkend onderzoek van adsorptiekolten, GEOS, 1925.11.09, cum laude, *prof.dr. W. Reinders*
- 107 **Jan Hendrik Plantenga**, Les initiateurs du style baroque dans le Brabant, ARCH, 1925.11.11, cum laude, *prof.ir. J.A.G. van der Steur*
- 108 **Joannes Petrus Dudok van Heel jr.**, Onderzoekingen over de ontwikkeling van de anthere, van den zaadknop en van het zaad bij Beta vulgaris L, LIFE, 1925.11.20, *prof.dr.ir. G. van Iterson*
- 109 **Wiebold Frans Brandsma**, Reactiesnelheden, CHEM, 1925.12.17, cum laude, *prof.dr. F.E.C. Scheffer*
- 110 **Samuel Hannik**, Tectoniek van den Löwenberger-Goldberger trog, GEOS, 1926.01.22, *prof.dr.ir. H.A. Brouwer*
- 111 **Marinus Floris de Bruyne**, Onttating en desinfectie, LIFE, 1926.02.03, *prof.dr. J.G. Sleswijk*

- 112 Hendrikus Antonius Josephus Schoutissen**, Studies in de diazochemie, tevens als bijdragen tot het substitutieprobleem in de benzolkern, CHEM. 1926.03.19, cum laude, *prof.dr.ir. J. Böeseken*
- 113 Louis van der Heide**, Het inversiegevaar van zwaveligzuur in de suikerfabricage, CHEM. 1926.03.24, *prof.dr.ir. H.I. Waterman*
- 114 Nicolaas Jacobus Maria Taverne**, Vulkanstudien op Java, GEOS. 1926.04.21, *prof.dr.ir. H.A. Brouwer*
- 115 James Meyndert William Nash**, De geologie der Grande-Chartreuseketens, GEOS. 1926.05.07, cum laude, *prof.dr.ir. H.A. Brouwer*
- 116 Hendrik Jean Louis Donker**, Bijdrage tot de kennis der boterzuur-, butylalcohol- en acetongistingen, LIFE. 1926.06.04, cum laude, *prof.dr. A.J. Kluiver*
- 117 Charles Johannes de Wolff**, De saccharosevorming in aardappelen tijdens het drogen, LIFE. 1926.06.25, cum laude, *prof.dr.ir. H.I. Waterman*
- 118 Gerrit van der Lee**, Onderzoekingen over het vanadiumpentoxyde-sol, CHEM. 1926.07.01, cum laude, *prof.dr. W. Reinders*
- 119 Louis Edmond den Dooren de Jong**, Bijdrage tot de kennis van het mineralisatieproces, CHEM. 1926.09.24, *prof.dr. A.J. Kluiver*
- 120 Arthur Ferdinand August Reinhart**, Studies in de chemie der peroxyden, tevens een bijdrage tot de kennis der katalytische verschijnselen, CHEM. 1926.09.28, *prof.dr.ir. J. Böeseken*
- 121 Willem Maurits Bendien**, Bestendigheid en electrische lading in mengsels van lyophobe en lyophile kolloïden, CHEM. 1926.11.02, *prof.dr. W. Reinders*
- 122 Frederikus Jacobus Faber**, Bijdrage tot de geologie van Zuid-Angola (Afrika), GEOS. 1926.11.12, cum laude, *prof.dr. G.A.F. Molengraaff*
- 123 Siegfried Leonard Langedijk**, Bijdrage tot de kennis der photochemische alcoholoxydatie, CHEM. 1926.12.13, *prof.dr.ir. J. Böeseken*
- 124 Willem Theodoor Bähler**, Theorie van het electromagnetische telefoonrelais, ELEC. 1927.01.12, cum laude, *prof.jhr.dr. G.J. Elias*
- 125 Johannes Gerardus Weeldenburg**, De inwerking van natronloog op zwavelkoolstof, CHEM. 1927.03.28, *prof.dr.ir. J. Böeseken*
- 126 Roelof Verschuur**, De verandering van de rotatie en van het geleidend vermogen van enkele suikers in waterige oplossing met en zonder boorzuur, CHEM. 1927.05.05, *prof.dr.ir. J. Böeseken*
- 127 Cornelis Pieter Mom**, De coagulatie der kolloïde klei bij de zuivering van Indisch rivierwater, LIFE. 1927.06.13, *prof.dr. W. Reinders, prof.dr.ir. H.I. Waterman*
- 128 Maximilian Julius Otto Strütt**, Skineffect en temperatuurverdeling in electrische geleiders, ELEC. 1927.06.28, cum laude, *prof.jhr.dr. G.J. Elias*
- 129 Reinout Willem van Bemmelen**, Bijdrage tot de geologie der Betische ketens in de provincie Granada, GEOS. 1927.07.05, cum laude, *prof.dr.ir. H.A. Brouwer*

- 130 Sin Hok Tan**, Over de samenstelling en het ontstaan van krijt- en mergelgesteenten van de Molukken, GEOS, 1927.10.05, cum laude, *prof.dr.ir. H.A. Brouwer*
- 131 Johannes Petrus Maria van Gilse**, Bijdrage tot de kennis van het filtreren, CHEM, 1927.12.02, cum laude, *prof.dr.ir. H.I. Waterman*
- 132 Simon Hendrik Bertram**, Bereiding en onderzoek van oliezuur, CHEM, 1928.01.20, cum laude, *prof.dr.ir. H.I. Waterman*
- 133 Nicolaas Hendricus van Doorninck**, De Lufilische plooiing in den Boven Katanga (Belgischen Congo) naar eigen waarnemingen en naar critisch overzicht van de er over verschenen publicaties, GEOS, 1928.02.03, cum laude, *prof.dr. G.A.F. Molengrauff*
- 134 Laurens Jan de Ven**, Nut en methoden van tijdstudiën inzonderheid bij massa-productie, HASS, 1928.02.22, *prof.dr. J.G.C. Volmer, prof.ir. R.L.A. Schoemaker*
- 135 Peter Dingemans**, Reactiesnelheid van zuurstof met oplossingen van hydrochinon en van metol, CHEM, 1928.02.28, cum laude, *prof.dr. W. Reinders*
- 136 Christiaan Johannes Maan**, Een vergelijkend onderzoek van den verzadigden koolstofvrij- en zesring, CHEM, 1928.03.07, cum laude, *prof.dr.ir. J. Böeseken*
- 137 Wieger de Jong**, Over de kristalstructuren van arsenopyriet, borniet en tetraëdriet, CHEM, 1928.03.16, cum laude, *prof.ir. J.A. Grutterink*
- 138 Johannes Antonius Alphonsus Mekel**, Theorie van het tektonisch-gravimetrisch onderzoek, GEOS, 1928.03.21, cum laude, *prof.dr.ir. H.A. Brouwer, prof.ir. C.L. van Nes*
- 139 Adrianus Petrus Struyk**, Onderzoekingen over de alcoholische gisting, CHEM, 1928.04.27, cum laude, *prof.dr. A.J. Kluyver*
- 140 Roelof Herman Borkent**, Fouten van stroomtransformatoren, ELEC, 1928.05.11, *prof.dr.ir. H.S. Hallo*
- 141 Honoré Alphonse Joseph Pieters**, Bijdrage tot de kennis der dehydratatie van het kaolien, CHEM, 1928.06.05, cum laude, *prof.dr.ir. C.J. van Nieuwenburg*
- 142 Angenitus Martinus de Wild**, Het natuurwetenschappelijk onderzoek van schilderijen, HASS, 1928.06.12, cum laude, *prof.dr. F.E.C. Scheffer*
- 143 Alida Catharine Sloep**, Onderzoekingen over pectinestoffen en hare enzymatische ontleding, LIFE, 1928.06.18, *prof.dr. A.J. Kluyver*
- 144 Johan Piet Klaas van der Steur**, Joodevenwichtsconstanten van vetten en vezuren, CHEM, 1928.06.19, cum laude, *prof.dr.ir. H.I. Waterman*
- 145 Cornelis Bernardus van Niel**, The propionic acid bacteria, LIFE, 1928.09.26, cum laude, *prof.dr. A.J. Kluyver*
- 146 Marinus Adrianus Scheffer**, De suikervergisting door bacteriën der coligroep, LIFE, 1928.12.17, *prof.dr. A.J. Kluyver*
- 147 Charles Henricus Johannes Wilhelm**, De tinertsafzettingen van het eiland Singkep en de genese der alluviale afzettingen, GEOS, 1928.12.20, *prof.ir. H.F. Grondijs*
- 148 Johannes Wilhelmus Huybert Uytenbogaart jr.**, Bijdrage tot de kennis der koolstofafzetting bij het 'cracken', CHEM, 1929.01.11, *prof.dr.ir. H.I. Waterman*

149 Jan Westerveld, De bouw der Alpujarras en het tektonische verband der oostelijke Betische ketens, GEOS. 1929.01.30, *prof.dr.ir. H.A. Brouwer*

150 Adriaan Klinkenberg, Evenwichten in het stelsel strontiumoxyde-rietsuiker-water, CHEM. 1929.03.18, cum laude, *prof.dr. W. Reinders*

151 Hendricus Jacobus van der Maas, Stuurstandslijnen van vliegtuigen; de bepaling ervan door middel van vliegproeven en hare betekenis voor de beoordeling der stabiliteit, AERO. 1929.03.25, *prof.dr. J.M. Burgers*

152 Henri Louis Joseph Zermatten, Geologische onderzoeken in de randzone van het venster der Sierra-Nevada (Spanje).", GEOS. 1929.03.27, *prof.dr.ir. H.A. Brouwer*

153 Willem Cornelis Smit, De linoluren en de oxydatie van onverzadigde vetzuren door organische perzuren, CHEM. 1929.04.12, *prof.dr.ir. J. Böseken*

154 Jacobus Johannes Koch, Eenige toepassingen van de leer der eigenfucties op vraagstukken uit de toegepaste mechanica, MECH. 1929.04.17, cum laude, *prof.dr.ir. C.B. Biezeno*

155 Bouwe Bölger, Organisatorische verhoudingen tusschen werkgevers en arbeiders, ADMI. 1929.04.29, *prof.mr.dr. J.H. Valckenier Kips*

156 Johannes van Loon, Analytische studiën in verband met de samenstelling van eenige onvoldoend gekende vetten, CHEM. 1929.05.13, cum laude, *prof.dr. A.M.A.A. Steger*

157 Remmet Priester, Bijdrage tot de kennis van eenige voor de reukstofindustrie belangrijke aromatische allyl- en propenyl-verbindingen, CHEM. 1929.05.17, *prof.dr.ir. H.I. Waterman*

158 Willem van Konijnenburg, Het beheer onzer waterschappen uit een economisch oogpunt beschouwd, CIVI. 1929.06.03, cum laude, *prof.mr.dr. J.H. Valckenier Kips*, *prof.dr. J.G.C. Volmer*

159 Johannes Nicolaas Jacobus Perquin, Bijdrage tot de kennis van het Bergius-proces, CHEM. 1929.06.13, cum laude, *prof.dr.ir. H.I. Waterman*

160 Johannes Dirk van Roon, Over de vorming der cyclische acetalen van glycerine met acetaldehyd, formaldehyd en benzaldehyd, CHEM. 1929.06.17, cum laude, *prof.dr.ir. J. Böseken*

161 Gerard Johan Hendrik Molengraaff, Geologie en geohydrologie van het eiland Curaçao, GEOS. 1929.06.20, *prof.dr. G.A.F. Molengraaff*

162 Kornelis Holwerda, Over de controle en de mate van betrouwbaarheid van het chloreringsproces voor drinkwater, speciaal voor de tropen, I.H.F. 1929.06.24, *prof.dr. A.J. Kluyver*, *prof.dr.ir. H.I. Waterman*

163 Johannes Antonius Marie van Buuren, Beschouwingen over de economie en het beheer der zeehavens, CIVI. 1929.09.30, *prof.dr. J.G.C. Volmer*, *prof.dr.ir. G.H. van Mourik Broekman*

164 Jan Hendrik Koers, Bijdrage tot de theorie der binaire stelsels, in het bijzonder het optreden van vaste stof, CHEM. 1929.10.17, cum laude, *prof.dr. F.E.C. Scheffer*, *prof.dr. M. de Haas*

165 José Stephen Petrus Blumbergen, Studies in de katalytische ontleding van diazoverbindingen, CHEM. 1929.10.24, *prof.dr.ir. J. Böseken*

166 Marinus Johannes van Tussenbroek, Eenige technische adsorptieprocessen en hierbij optredende chemische omzettingen. Electriche kleurmeting, CHEM. 1929.12.12, cum laude, *prof.dr.ir. H.I. Waterman*

167 Hendrik Gerardus Bos, Meringen over de dispersoelectriciteit bij water en benzine en over de geleidbaarheid van bezine en transformatorolie, CHEM. 1930.01.10, *prof.dr. M. de Haas, prof.dr.ir. H.I. Waterman*

168 Johannes Stephanus Antonius Joseph Maria van Aken, Kalk-suiker. Melasse ontsuikeren met kalk. Kalk-suiker als kolloidaal systeem, CHEM. 1930.02.20, *prof.dr.ir. H.I. Waterman*

169 Gerrit Jan de Glee, Over grondwaterstromingen bij wateronttrekking door middel van putten, CIVI. 1930.04.02, *prof.dr. J.M. Burgers, prof.dr. H. Bremekamp*

170 Edzard Jacob Bosch Ridder van Rosenthal, De ontwikkeling der waterschappen in Gelderland, CIVI. 1930.04.11, *prof.mr.dr. J.H. Valckenier Kips*

171 Gellius Flieringa, De zorg voor de volkshuisvesting in de stadsgemeenten in Nederlandsch Oost-Indië in het bijzonder te Semarang, ARCH. 1930.05.06, *prof.mr.dr. J.H. Valckenier Kips, prof.ir. M.J. Granpré Molière*

172 Louis van Houten, Geologie des Pelmo-Gebietes in den Dolomiten von Cadore, GEOS. 1930.05.21, *prof.dr.ir. J.A.A. Mekel*

173 Antonia Elisabeth Korvezee, Koperchloride als katalysator voor het Deacon-proces, CHEM. 1930.06.05, cum laude, *prof.dr. F.E.C. Scheffer*

174 Wilhelm Ludwig Hermann Schmid, Over de werking van de luchtlift voor water, MECH. 1930.06.16, *prof.ir. J.C. Dijkstra*

175 Franciscus Joannes Josephus Hubertus Kurris, Evenwichten van vast calcium- en magnesiumcarbonaat met koolzuuroplossingen, CHEM. 1930.06.25, *prof.dr. W. Reinders*

176 Cornelis Lambertus Binsbergen, Theoretische en experimenteele onderzoekingen op het gebied van uitlaat en spoeling bij tweetaktmotoren, MECH. 1930.06.26, *prof. P. Meyer*

177 Johannes Barthelomeus van der Lek, Onderzoekingen over de butylalkoholgisting, CHEM. 1930.06.30, *prof.dr. A.J. Kluyver*

178 Charles Philippe Marie Mathijs Bogaerts, Het temperatuursverloop in koelribben en de berekening dezer ribben, MECH. 1930.09.25, *prof. P. Meyer, prof.dr. J.M. Burgers*

179 Henricus Walterus Scheffers, Intramoleculaire omleggingen bij de hydreeering van esters van enkelvoudig onverzadigde vetzuren, CHEM. 1930.10.02, *prof.dr. A.M.A.A. Steger*

180 Johan Cornelis Baars, Over sulfaatreductie door bacteriën, LIFE. 1930.10.09, *prof.dr. A.J. Kluyver*

181 Nicolaas Anthony Johannes Voorhoeve, Spanningsregeling van electriche machines door ontladingsbuisen, ELEC. 1930.12.11, *prof.ir. C. Feldmann, prof.jhr.dr. G.J. Elias*

- 182 Harry van der Veen**, Selectie en verplaatsing van dubbele bindingen bij de hydreeering van linol- en lineeleenzure esters, CHEM, 1930.12.18, cum laude, *prof.dr.* A.M.A.A. Steger
- 183 Justinus Everhard Carrière**, De voorbehandeling bij langzame zandfiltratie van rivierwater, CIVI, 1931.01.15, *prof.dr.* J.G. Sleswijk
- 184 Willem Johan Muller**, Torsiemetingen aan voortstuwingsassen van schepen, MARI, 1931.01.22, cum laude, *prof.ir.* J.C. Dijkhoorn, *prof.* P. Meyer
- 185 Hendrik Adriaan van Westen**, Het waterstofgetal en eenige toepassingen, CHEM, 1931.03.19, *prof.dr.ir.* H.I. Waterman
- 186 Willem Jules Jan de Muralt**, Arbeidswet en Industrie, ADMI, 1931.05.21, *prof.mr.dr.* J.A. Veraart
- 187 Johannes Willem Hendrik Adér**, Bereiding van organische zuurchloriden uit 1.1.1.-trichloorverbindingen, CHEM, 1931.06.04, *prof.dr.ir.* J. Böeseken
- 188 Nicolaas Vermaas**, Bijdrage tot de kennis van de evenwichten welke bij Böeseken's configuratiebepalingsmethode voor glykolen en oxyzuren een rol spelen, CHEM, 1931.06.11, cum laude, *prof.dr.ir.* J. Böeseken
- 189 Johannes Antonius Maria van Liempt**, De afscheiding van Wolfram uit gasvormige verbindingen en hare toepassingen, CHEM, 1931.06.19, cum laude, *prof.dr.* W. Reinders
- 190 Nelly Helena Josina Maria Voogd**, Over de bereiding van zuivere ceriumpreparaten en over inverse smeltpunten, CHEM, 1931.10.21, cum laude, *prof.dr.* F.E.C. Scheffer
- 191 Jacobus Smittenberg**, De invloed van temperatuur en druk op de adsorptie van waterstof door nikkel, CHEM, 1931.10.29, cum laude, *prof.dr.* F.E.C. Scheffer
- 192 Maria Gezina ter Horst**, Tetrammiekobaltcomplexen, CHEM, 1931.11.04, *prof.dr.* F.E.C. Scheffer
- 193 Louis Jean Chrétien van Es**, The age of pithecanthropus, GEOS, 1931.11.11, *prof.dr.* J.H.F. Umbgrove
- 194 Josephus Nicolaas Antonius van den Bouwhuysen**, Meting van de horizontale temperatuurgradient over den zuidelijken rand van den horst bij Winterswijk, GEOS, 1931.12.10, *prof.dr.ir.* J.A.A. Mekel, *prof.dr.* M. de Haas
- 195 Aart Hendrik Willem Hacke**, De sociaal-economische beteekenis der arbeidswet, ADMI, 1931.12.16, *prof.mr.dr.* J.A. Veraart
- 196 Albert Thomas Küchlin**, Studies over het mechanisme van de reactie van Fenton, CHEM, 1932.01.14, cum laude, *prof.dr.ir.* J. Böeseken
- 197 Hendrik Misset**, Onderzoekingen omtrent het gedrag van autobanden op een effen weg, MECH, 1932.01.20, *prof.dr.ir.* P. Meijers
- 198 Hendricus Antonius Josephus van Laarhoven**, Hydreeeringsverschijnselen bij vetzuren met drievoudige binding, CHEM, 1932.03.02, *prof.dr.* A.M.A.A. Steger
- 199 Hendrik Albert Stheeman**, The geology of southwestern Uganda with special reference to the stanniferous deposits, GEOS, 1932.03.03, *prof.ir.* H.F. Grondijs, *prof.dr.ir.* J.A.A. Mekel

- 200 Gerardus Hendricus Visser**, Over optische dissociatie van eenige twee-atomige moleculen, *PHYS.* 1932.03.21, *prof.dr.* *H.B. Dorgelo*
- 201 Bene Elema**, De bepaling van de oxydatie-reductiepotentiaal in bacteriëncultures en hare beteekenis voor de stofwisseling, *LIFE*, 1932.04.14, cum laude, *prof.dr.* *A.J. Kluwer*
- 202 Alexander Winand Johann Mayer**, De destillatie van Mexicaansche aardolie, *CHEM.* 1932.05.26, *prof.dr.ir.* *H.I. Waterman*, *prof.ir.* *G.A. Brender à Brandis*
- 203 Johan Gradus Jozua Cornelis Nieuwenhuis**, Beschouwingen over het loonvraagstuk in het algemeen en over de solidaristische theorieën betreffende het rechvaardig" loon in het bijzonder.", *ADMI.* 1932.07.08, *prof.dr.* *J.G.C. Volmer*, *prof.dr.ir.* *H.S. Hallo*
- 204 Leopold Johan Gerard van Ewijk**, Het verband tusschen het onderwerp, het negatief en het positief en methoden tot het verkrijgen van secundaire beelden in de fotografie, *CHEM.* 1932.10.12, *prof.dr.* *W. Reinders*
- 205 Johannes Cornelis Vlugter**, Over de chemische samenstelling van hoogmoleculaire minerale oliën, *CHEM.* 1932.11.10, cum laude, *prof.dr.ir.* *H.I. Waterman*
- 206 Geert Otten**, Onderzoekingen betreffende de theorie van den Townendring, *MECH.* 1932.11.30, *prof.dr.* *J.M. Burgers*
- 207 Adriaan Jan Wildschut**, Metingen van het electrisch moment van eenige cis-trans isomeren in verband met de configuratiebepaling van oliezuur en elaidinezuur, *CHEM.* 1932.12.07, *prof.dr.ir.* *J. Böseken*, *prof.dr.* *C. Zwikker*
- 208 Arie van der Neut**, De elastische stabiliteit van den dunwandigen bol, *MECH.* 1932.12.13, cum laude, *prof.dr.ir.* *C.B. Biezeno*
- 209 Willem Marinus Marie Pilaar**, De hygiënische beteekenis van automobieltgassen, *LIFE*, 1932.12.19, *prof.dr.* *J.G. Sleswijk*
- 210 Jacobus Pieter Schouten**, Over de grondslagen van de operatorenrekening volgens Heaviside, *ELEC.* 1933.02.15, cum laude, *prof.dr.* *G.J. Elias*, *prof.dr.* *H. Bremekamp*
- 211 Frits Bakker Schut**, Industrie en woningbouw. Een technisch-economische beschouwing over bemoeiingen van de industrie met arbeiderswoningbouw, *ARCH.* 1933.03.23, *prof.dr.* *J.G.C. Volmer*, *prof.ir.* *M.J. Granpré Molière*
- 212 Johan Gerard Schlingemann**, Het voorkomen en beslechten van arbeidsgeschillen, *ADMI.* 1933.04.05, *prof.mr.dr.* *J.A. Veraart*, *prof.mr.* *A.C. Josephus Jitta*
- 213 Anton Johan Tulleners**, Het gebruik van aethyleen en homologen in de chemische techniek, *CHEM.* 1933.04.06, *prof.dr.ir.* *H.I. Waterman*
- 214 Christiaan Bernardus Barto**, Economie en techniek van codes en codecondensors, *ADMI.* 1933.05.24, *prof.dr.* *J.G.C. Volmer*
- 215 Egbert van Dalen**, Oriënteerende onderzoekingen over tandcementen, *LIFE.* 1933.05.29, *prof.dr.ir.* *C.J. van Nieuwenburg*
- 216 Frits Willem van Berckel**, Onderzoekingen over de circulatie in het koelsysteem van de vuurhaardwanden van een stoomketel, *MECH.* 1933.06.15, *prof.ir.* *A.J. ter Linden*

- 217 **John Gaillard**, A study of the fundamentals of industrial standardization and its practical application, especially in the mechanical field, MECH, 1933.09.12, *prof.dr. J.G.C. Volmer, prof.ir. P. Landberg*
- 218 **Johan Heinrich Steggewentz**, De invloed van de getijbeweging van zeeën en getijrivieren op de stijghoogte van grondwater, CIVI, 1933.10.31, *prof.dr. J.M. Burgers, prof.dr. H. Bremekamp*
- 219 **Jan Emmen**, Gewapend-beton en ijzer in den brugbouw. Een vergelijkend onderzoek naar de toepassing van ijzer- en gewapend-betonconstructies voor belangrijke bruggen, CIVI, 1934.02.20, *prof.ir. J.A. Bakker, prof.ir. N.C. Kist*
- 220 **Cornelis van Meeuwen**, Bijdrage tot de kennis van de oxydatie met organische perzuren, CHEM, 1934.03.22, *prof.dr.ir. J. Böseken*
- 221 **Johannes Gijsbertus Wilhelm Mulder**, De ontwikkeling van gloeidraadgelijkrichterbuizen, in het bijzonder van die voor hoge spanningen, ELEC, 1934.03.28, cum laude, *prof.dr. H.B. Dorgelo*
- 222 **Roelof Houwink**, Physikalische Eigenschaften und Feinbau von Natur- und Kunstharnen, CHEM, 1934.05.18, cum laude, *prof.dr.ir. G. van Ijerson*
- 223 **Herman Anthonie Franken**, Voorkomen, bereiding en eigenschappen van de, in de natuur aangetroffen uronzuren en van enkele verwante zuren, CHEM, 1934.05.30, cum laude, *prof.dr.ir. G. van Ijerson*
- 224 **Willem Coltof**, Bijdrage tot de kennis van vervaardiging, eigenschappen en verwerking der acetaatzijde, CHEM, 1934.06.07, cum laude, *prof.dr.ir. H.I. Waterman*
- 225 **Tjomme Ynte Kingma Boltjes**, Onderzoekingen over nitrificeerende bacteriën, LIFE, 1934.06.28, cum laude, *prof.dr. A.J. Kluyver*
- 226 **Franciscus Philippus Antonius Tellegen**, Dioxaan en derivaten, CHEM, 1934.10.18, cum laude, *prof.dr.ir. J. Böseken*
- 227 **Leonardus Johannes Nicolaas van der Hulst**, Toepassing van absorptiespectra bij chemisch-technisch onderzoek, CHEM, 1934.12.11, *prof.dr.ir. H.I. Waterman, prof.dr. W. Reinders*
- 228 **Rudolph Hetserus Mees**, Onderzoekingen over de biersarcina, CHEM, 1934.12.12, *prof.dr. A.J. Kluyver*
- 229 **Martien Christiaan Frederik Beukers**, Fotografische ontwikkelaars, CHEM, 1934.12.13, cum laude, *prof.dr. W. Reinders*
- 230 **Jacob van den Berge**, Beoordeling van de waarde van fungicide stoffen voor houtconserveering, LIFE, 1934.12.14, *prof.dr. A.J. Kluyver*
- 231 **Metske Kruijswijk**, Schaduwvorming en herkenbaarheid, PHYS, 1935.02.06, *prof.dr. C. Zwikker*
- 232 **Govert Slooff**, Cyclische aethers gevormd door condensatie van pyrocatechol met aldehyden en ketonen, CHEM, 1935.05.11, cum laude, *prof.dr.ir. J. Böseken*
- 233 **Hendrik Koopmans**, Bijdrage tot de kennis van het cokevormingsproces, CHEM, 1935.05.22, *prof.ir. G.A. Brender à Brandis*
- 234 **Percy Cohen Henriquez**, Eenige toepassingen van de dielectrische constante in de chemie, CHEM, 1935.06.05, cum laude, *prof.dr.ir. J. Böseken, prof.dr. C. Zwikker*

- 235 Herman Coenraad Olivier**, Bescherming van het onderstel eener zuigermachine tegen de verandelijke reacties van het draaimoment, MECH, 1935.06.20, *prof. P. Meyer*
- 236 Jacob Johan de Haas**, De spreiding en de elektrische potentiaal aan grensvlakken, PHYS, 1935.06.21, *prof.dr. W. Reinders*
- 237 Johannes Sigbertus Victor Josephus Spée**, Theoretische beschouwingen over het wasschen van steenkolen, MECH, 1935.06.25, *prof.dr. C.L. van Nes*
- 238 Johannes Cornelis Hoogerheide**, Bijdrage tot de kennis van de reactie van Pasteur, LIFE, 1935.06.26, cum laude, *prof.dr. A.J. Kluiver*
- 239 Gerritje Dulfer**, Onderzoekingen over kwalitatieve analyse, CHEM, 1935.06.27, *prof.dr.ir. C.J. van Nieuwenburg*
- 240 Petrus Gerardus Franciscus Tilmann Fehmers**, Kerngedachten uit de interne bedrijfsefficiëntie, ADML, 1935.06.28, *prof.mr.dr. J.A. Veraart*
- 241 Gerrit ter Bruggen**, De eocene fyllietformatie in Centraal-Borneo, GEOS, 1935.12.17, *prof.dr. J.H.F. Umbgrove*
- 242 Jacobus Stuurman**, Meting van de snelheid van oxydatie van enkele groepen alkenen door perazijnzuur, CHEM, 1936.02.18, cum laude, *prof.dr.ir. J. Böeseke*
- 243 Jan Roelof Johan van Dongen**, Vergelijkend spanningsonderzoek, MECH, 1936.04.07, *prof.dr.ir. C.B. Biezeno*
- 244 Fritz Edmund Riep**, De invloed van de bereidingswijze op de samenstelling van lijnolie en op haar eigenschappen als verbindmiddel. Het lijnolievraagstuk, CHEM, 1936.05.12, *prof.dr. A.M.A.A. Steger*
- 245 Jacobus Dingenus Jacobs**, Oxydatie door perazijnzuur van enkele onverzadigde carbonylverbindingen, CHEM, 1936.06.11, *prof.dr.ir. J. Böeseke*
- 246 Charlotte Leonie Doppler**, Onderzoekingen over enkele bestanddelen van de cacao, meer in het bijzonder over eenige daarin voorkomende celwandstoffen, LIFE, 1936.06.19, cum laude, *prof.dr.ir. G. van Iterson*
- 247 Dirk Thöenes**, Het ontstaan van asfalt-bitumen, CHEM, 1936.07.03, *prof.dr.ir. H.I. Waterman*, *prof.dr.ir. J.A.A. Mekel*
- 248 Emile Jean Jules Saint Aubain Marie de Roy van Zuyderwijn**, Onverzadigde sulfonen, CHEM, 1936.10.27, *prof.dr.ir. J. Böeseke*
- 249 Adolf Schweizer**, Caramel en humine, CHEM, 1937.03.04, cum laude, *prof.dr.ir. J. Böeseke*
- 250 Allert Einder Veldman**, De constitutie en de fabricage der phenol-formaldehyd-harsen, CHEM, 1937.03.19, *prof.dr.ir. H.I. Waterman*
- 251 Cornelis Schouten**, Metasomatische Probleme. Mount Isa, Rammelsberg, Meggen, Mansfeld und Künstliche Verdrängung, GEOS, 1937.05.14, cum laude, *prof.ir. H.F. Grondijs*
- 252 Frits Tollenaar**, Bijdrage tot de theorie van de harmonische bovenvelden in asynchrone motoren, in verband met de practische toepassing van het kruipverschijnsel bij kooiankeromotoren, ELEC, 1937.06.03, cum laude, *prof.ir. C. Feldmann*
- 253 Victor Emanuel Gonsalves**, Metingen aangaande de relatieve energieverdeling van het continue waterstof-spectrum tusschen 2000 en 3000 Å, PHYS, 1937.10.14, *prof.dr. H.B. Dorgelo*

- 254 Adolf Baars**, Onderzoek naar de mogelijkheid tot beïnvloeding der conjunctuurbeweging door kapitaaluitgaven der overheid en door andere overheidsmaatregelen, HASS, 1937.10.20, *prof.mr.dr. J.A. Vernaart*
- 255 Pieter Nicolaas Degens**, De langzame verbranding van methaan, CHEM, 1937.11.11, *prof.dr. F.E.C. Scheffer*
- 256 Elise Maria Juditha Mulders**, Het systeem broom-water, CHEM, 1937.11.18, *prof.dr. F.E.C. Scheffer*
- 257 Jannis Pieter Mazure**, De berekening van getijden en stormvloed en op benedenrivieren, CIVI, 1937.12.16, cum laude, *prof.dr. J.M. Burgers*
- 258 Johan Marie Furnée**, Wisselwerking tussen boorzuur en de pentolen, CHEM, 1938.01.27, *prof.dr.ir. J. Böeseken*
- 259 Adrianus Johannus Cosijn**, Statistical studies on the phylogeny of some foraminifera. Cyclocypeus and Lepidocylin from Spain, Globorotalia from the East-Indies, GEOS, 1938.02.03, *prof.dr. J.H.F. Umbgrove*
- 260 Frederik Johan Christiaan van der Schalk**, De wiskundige-statistische analyse van de arbeidsproductiviteit en haar praktische toepassing op eenige bedrijfstakken en ondernemingen in Nederland, ADMI, 1938.02.10, *prof.mr.dr. J.A. Vernaart*, *prof.ir. P. Landberg*
- 261 Johannes Jacobus van der Spek**, Cyclische acetalen van pyrocatechol, CHEM, 1938.02.24, *prof.dr.ir. J. Böeseken*
- 262 Wilhelmus Petrus Antonius van Lammeren**, Analyse der voortstuwingscomponenten in verband met het schaaleffect bij scheepsmodelproeven, MARI, 1938.03.18, cum laude, *prof. N. Kal*
- 263 Jacob Jan Leendertse**, Polymerisatie van onverzadigde koolwaterstoffen, CHEM, 1938.04.07, cum laude, *prof.dr.ir. H.I. Waterman*
- 264 Karel Lourens van Schouwenburg**, On respiration and light emission in luminous bacteria, LIFE, 1938.05.19, cum laude, *prof.dr. A.J. Klayver*
- 265 Jan Bergmans**, Lichtreflectie door wegdekken, PHYS, 1938.06.02, *prof.dr. C. Zwikker*
- 266 Jozef Antonius Wilhelmus Muller**, Enkele bedrijfseconomische beschouwingen over den Nederlandschen steenkolenmijnbouw, HASS, 1938.06.08, *prof.dr.ir. J. Goudriaan*, *prof.ir. C.L. van Nes*
- 267 Johannes Ruttink**, Chemische en pharmacologische onderzoekingen in de purinereeks, in het bijzonder van aethylxanthinen, CHEM, 1938.06.09, cum laude, *prof.dr.ir. J. Böeseken*
- 268 Johanna Christina de Quant**, De verbrandingswarmte van enige diolen en hun acetonverbindingen, CHEM, 1938.06.14, *prof.dr.ir. J. Böeseken*
- 269 Frans Adriaan Heijn**, Radioactivity induced by neutrons, PHYS, 1938.06.15, *prof.dr. H.B. Dorgelo*
- 270 Louis Henri Cyril Perquin**, Bijdrage tot de kennis der oxydatieve dissimilatie van *Aspergillus niger* van Tieghem, LIFE, 1938.07.01, cum laude, *prof.dr. A.J. Klayver*

- 271 Hoyte Broese van Groenou**, De creosoteering van beukenhout en de factoren, die daarop invloed uitoefenen, LIFE, 1938.09.22, *prof.dr.ir. G. van Ierssen*
- 272 Cornelus van Vlodrop**, Katalytische hydrogeneering van vette oliën, CHEM, 1938.11.10, cum laude, *prof.dr.ir. H.I. Waterman*
- 273 Pieter Martinus Heertjes**, Dichtheidsmetingen van vezels en enkele toepassingen hiervan, CHEM, 1938.12.22, *prof.dr.ir. H.I. Waterman*
- 274 Tjakko Willem Anton Borgesius**, Enkele chemisch-technische toepassingen van tyrosine bevattende eiwitten, CHEM, 1939.02.23, *prof.dr.ir. H.I. Waterman*
- 275 Wybe Johannes Oosterkamp**, Problemen bij de constructie van technische röntgenbuizen, PHYS, 1939.02.24, *prof.dr. H.B. Dorgelo*
- 276 Leendert Gerrit Versteeg**, Eenige bedrijfseconomische beschouwingen over de poetsmiddelenindustrie in Nederland, HASS, 1939.03.28, *prof.dr.ir. J. Goudriaan*
- 277 Zander Yske van der Meer**, Het opkomen van den waterstaat als taak van het landsbestuur in de Republiek der Vereenigde Provinciën, HASS, 1939.03.30, *prof.ir. J.J. Jacobs*
- 278 Willem Bernard Kloos**, Het Nationaal Plan, ARCH, 1939.05.12, *prof.mr.dr. J.A. Vernaart, prof.ir. M.J. Granpré Molière*
- 279 Constant Lodewijk Marius Kerkhoven**, Het tempo van arbeidsverrichtingen in de massaproductie als functie van het aantal arbeidsuren, de lengte van den werkcyclus en de samenstelling daarvan, HASS, 1939.05.25, *prof.dr.ir. J. Goudriaan*
- 280 Darey van der Want**, Cellulose - Natriumhydroxyde - Water. De opname van Natriumhydroxyde en water door watten, bij loogconcentraties van 0-50%, CHEM, 1939.05.31, *prof.dr.ir. H.I. Waterman, prof.dr. W. Reinders*
- 281 Dirk Willem van Gelder**, Over de stroomverdeling in electrolysecellen, CHEM, 1939.06.02, cum laude, *prof.dr. W. Reinders, prof.dr. C. Zwikker*
- 282 Clara Henderina de Minjer**, Damp-vlocistofevenwichten in eenige ternaire stelsels, CHEM, 1939.06.08, cum laude, *prof.dr. W. Reinders*
- 283 Koenraad Evert Stork**, Eenige verschijnselen bij het onder belasting regelen van transformatoren, ELEC, 1939.06.21, *prof.dr.ir. H.G. Nolen*
- 284 Willem van Rijswijk**, De samenwerking van een dieselmotor met een door een gasturbine gedreven drukvulpomp, MECH, 1939.06.30, *prof. P. Meyer*
- 285 Arnout Slooff**, Het bepalen van chloor, broom en jodium in organische verbindingen door hydreeing, CHEM, 1939.11.09, *prof.dr. F.E.C. Scheffer*
- 286 Dirk Willem van Krevelen**, De geïnduceerde pyrolyse van methaan, CHEM, 1939.12.19, *prof.dr.ir. H.I. Waterman*
- 287 Han Hoog**, De katalytische cycliseering van aliphatische koolwaterstoffen, CHEM, 1940.02.13, cum laude, *prof.dr. F.E.C. Scheffer*
- 288 Jan Cornelis Louis Bernard Pet**, Prijs en waarde van stedelijke bouwgrond, ARCH, 1940.03.19, *prof.mr.dr. J.A. Vernaart*

- 289 Matieu Theodoor Jozef Custers**, Onderzoekingen over het gistgeslacht *Bretonomyces*, LIFE, 1940.05.03, *prof.dr. A.J. Kluyver*
- 290 Dirk van Duyn**, Bijdrage tot de kennis van de wolframbronzen, MATE, 1940.05.07, *prof.dr. F.E.C. Scheffer*
- 291 Kornelis de Boer**, Stereofonische geluidswaergave, PHYS, 1941.04.10, *prof.dr. C. Zwikker*
- 292 Herman Ebbinge**, De bereiding van titaandioxyde-pigmenten, CHEM, 1941.04.22, *prof.dr.ir. H.I. Waterman, prof.dr. W.G. Burgers*
- 293 Willem Johannes Cornelis de Kok**, Bijdrage tot de kennis van minerale oliën, CHEM, 1941.04.22, *prof.dr.ir. H.I. Waterman, prof.dr.ir. P.E. Verkade*
- 294 Franciscus Augustinus Marie Josephus Smits van Waesberghe**, Onderzoekingen over microben-amylasen, LIFE, 1941.07.28, *prof.dr. A.J. Kluyver*
- 295 Kurt Joann Schulz**, Over den spanningstoestand in doorboorde platen. Een bijdrage tot het sterkteonderzoek van klinknaden, MECH, 1941.09.06, cum laude, *prof.dr.ir. C.B. Biezeno*
- 296 Hendrik Cornelis Anthony van Duuren**, Typedruktelegrafie op radioverbindingen, ELEC, 1941.12.09, *prof.dr.ir. W.Th. Bähler*
- 297 Pieter Cornelis Lindenberg**, Bijdrage tot oordeelkundig beheer van het duinwaterkapitaal, LIFE, 1941.12.16, cum laude, *prof.ir. C.K. Visser, prof.ir. J.T. Thijsse*
- 298 Willem Louis Ghijsen**, Onderzoek naar het gedrag van mengsels van waterstofperoxyde en aldehyden in water, CHEM, 1942.01.29, *prof.dr. F.E.C. Scheffer*
- 299 Aloysius Ignatius Marie Keulemans**, Isomerisatie en thermodynamische stabiliteit van koolwaterstoffen, CHEM, 1942.02.20, cum laude, *prof.dr. F.E.C. Scheffer*
- 300 Jan Korringa**, Onderzoekingen op het gebied der algebraische optiek, PHYS, 1942.03.13, *prof.dr. R. Kronig*
- 301 Paulus Bastiaan Rottier**, Fluorometrische en spectrophotometrische bepaling van lactoflavine in micro-organismen, LIFE, 1942.03.20, *prof.dr. A.J. Kluyver, prof.dr. H.B. Dorgelo*
- 302 Cornelis Willem Kosten**, Over de elastische eigenschappen van ge vulcaniseerde rubber, PHYS, 1942.03.27, cum laude, *prof.dr. C. Zwikker*
- 303 Pieter Leendert Kooijman**, De bereiding van peroxyden door oxydatie van propaan en aethaan en hun toepassing, CHEM, 1942.06.02, cum laude, *prof.dr. F.E.C. Scheffer*
- 304 Johan Lodeijk Hendrik Jonker**, Stroomverdeling in versterkerbuizen, ELEC, 1942.06.05, *prof.jhr.dr. G.J. Elias*
- 305 Lambert Willem Nijboer**, Onderzoek naar den weerstand van bitumen-mineraalaggregaat mengsels tegen plastische deformatie, PHYS, 1942.07.03, *prof.dr. C. Zwikker*
- 306 Cornelis Johannes Dionisius Maria Verhagen**, Theorie en metingen over de impedantie en de stabiliteit van gasontladingen, PHYS, 1942.10.30, *prof.dr. H.B. Dorgelo*
- 307 Leendert Kosten**, Over blokkeerings- en wachtproblemen, MATH, 1942.12.17, cum laude, *prof.dr.ir. W.Th. Bähler, prof.dr. H. Bremekamp*

- 308 Samuel van der Meer**, De vulcanisatie van rubber met phenolformaldehyd-derivaten, CHEM. 1943.04.15, *prof.dr.ir. A. van Rossem*
- 309 Adelbert van Weel**, De natuurlijke gevoeligheidsgrens van radio-ontvangers voor zeer korte golflengte, ELEC. 1943.04.16, *prof.dr. C. Zwikker*
- 310 Ernest Franz Julius Janetzky**, Onderzoekingen over een synthese van indoolderivaten, CHEM. 1943.05.10, *prof.dr.ir. P.E. Verkade*
- 311 Gerrit Jan van Amerongen**, De permeabiliteit van rubberachtige stoffen voor gassen, PHYS. 1943.05.14, *prof.dr. C. Zwikker*
- 312 Arjen Nawijn**, Het gasontladingsmechanisme van den Geiger-Müller-teller, PHYS. 1943.05.24, *prof.dr. H.B. Dorgelo*
- 313 Johan Hubert Egbert Hessels**, De polydispersiteit van hevea-latex, CHEM. 1943.07.05, *prof.dr.ir. A. van Rossem*
- 314 Bastiaan Jacob Dirk Meeuse**, Oriënterende onderzoekingen over de vorming van rietsuiker uit zetmeel in planten bij lage temperatuur, LIFE. 1943.07.23, cum laude, *prof.dr.ir. G. van Iterson*
- 315 Marcel Jean Nestor Pourbaix**, Thermodynamique des solutions aqueuses diluées. Représentation graphique du rôle du pH et du potentiel, CHEM. 1945.10.31, cum laude, *prof.dr. F.E.C. Scheffer*; *prof.dr. W.G. Burgers*
- 316 Matijs van der Waarden**, De adsorptie van eenige gassen en hun binaire mengsels aan vaste stoffen, CHEM. 1945.11.14, *prof.dr. F.E.C. Scheffer*
- 317 Warner Tjardus Koiter**, Over de stabiliteit van het elastisch evenwicht, MECH. 1945.11.14, cum laude, *prof.dr.ir. C.B. Biezeno*
- 318 Cornelis Vermande**, Onderzoekingen over sulfietcellulose uit stroo, LIFE. 1945.12.12, *prof.ir. E.L. Selleger*
- 319 Adriaan van Wijngaarden**, Enige toepassingen van fourierintegralen op elastische problemen, MECH. 1945.12.12, cum laude, *prof.dr.ir. C.B. Biezeno*
- 320 Gustaaf Schmit**, Het optreden van methaan in watergas, CHEM. 1945.12.19, *prof.dr. F.E.C. Scheffer*
- 321 Joann Diederick Wackwitz**, Het verband tusschen arbeidsprestatie en leeftijd, HASS. 1946.01.24, *prof.dr.ir. J. Goudriaan*
- 322 Eduard Albert Marie Fernand Dahmen**, Harden en andere omzettingen van vette oliën onder invloed van zwaveldioxyde, CHEM. 1946.01.30, cum laude, *prof.dr.ir. H.I. Waterman*
- 323 Johan Michaël Goppel**, Quantitatieve röntgenografische onderzoekingen aan rubber, PHYS. 1946.02.13, *prof.dr. H.B. Dorgelo*; *prof.dr.ir. A. van Rossem*
- 324 Nico Lamme**, Bijdrage tot de kennis der synthese van koolwaterstoffen volgens Fischer-Tropsch, CHEM. 1946.02.20, *prof.dr.ir. H.I. Waterman*
- 325 Henricus Joannes Antonius de Goeij**, Het nacopieer-effect bij belichte chromaatlagen, MATE. 1946.02.27, cum laude, *prof.dr. W.G. Burgers*

326 Hendrikus Gerhardus Geelings,

De invloed van de atmosfeer en de warmtebehandeling bij het electrisch lasschen, MATE, 1946.03.13, *prof.dr.ir. W.F. Brandsma*

327 Christiaan Pieter van Dijk,

Bereiding, smaak en anaesthetische werking van eenige alkoxy-amino-nitrobenzenen, LIFE, 1946.04.04, cum laude, *prof.dr.ir. P.E. Verkade*

328 Mathijs Hubertus Reinier

Johannes Plusjé, Physische-chemische onderzoekingen over het ontsluiten van ruw fosfaat met salpeterzuur, CHEM, 1946.05.22, cum laude, *prof.dr. F.E.C. Scheffer*

329 Jacob van Slooten, Meetkundige beschouwingen in verband met de theorie der electrische vierpolen, MATH, 1946.05.22,

cum laude, *prof.dr. B. van den Pol, prof.dr. O. Bottema*

330 Frans Louis Henri Marie

Stumpers, Eenige onderzoekingen over trillingen met frequentiemodulatie, ELEC, 1946.05.29, *prof.dr. B. van den Pol, prof.dr. H. Bremekamp*

331 Nicolaas Warmoltz, Over het

mechanisme van den capaciteven ontstekker en van den weerstandontstekker, PHYS, 1946.05.29, *prof.dr. M.J. Druyvesteyn*

332 Pieter Henricus Witjens,

Onderzoekingen over de alkoxy-amino-nitro-benzenen, CHEM, 1946.06.20, cum laude, *prof.dr.ir. P.E. Verkade*

333 Jan Johannes Geluk, Galm en

geluidsabsorptie, PHYS, 1946.07.09, *prof.dr. C. Zwikker*

334 Richard Ernst Strube,

Onderzoekingen in verband met de locaal-anaesthetische werking van alkoxy-nitroanilinen, LIFE, 1946.07.09, *prof.dr.ir. P.E. Verkade*

335 Gerhard Gustav Hugh Hamm,

Onderzoekingen over het rheologisch gedrag van ongevulcaniseerde rubber met de rotatieplastometer, MATE, 1946.07.10, *prof.dr.ir. A. van Rossem*

336 Pieter Reinier Antonius Maltha,

Onderzoekingen over de invloed van L-ascorbinezuur en van verbindingen met verwante structuur op de bakaard van meel, LIFE, 1946.07.10, cum laude, *prof.dr.ir. G. van Iterson*

337 Theodorus Morel, Een nieuwe

synthese van furanen, CHEM, 1946.09.25, *prof.dr.ir. P.E. Verkade*

338 Reinier Timman, Beschouwingen

over de luchtkrachten op trillende vlieggruigvleugels waarbij in het bijzonder rekening wordt gehouden met de samendrukbaarheid van de lucht, AERO, 1946.10.09, cum laude, *prof.dr. H. Bremekamp, prof.dr. J.M. Burgers*

339 Jan Jacob Verschuur, Theorie en

metingen over de eigengolflengte van enkele soorten electromagnetische trilhouten, ELEC, 1946.11.27, *prof.dr. C. Zwikker*

340 Christianus Theodorus Fanciscus

van der Wijck, Uitbreiding van electromagnetische golven in een medium met veranderlijke electrische eigenschappen bij inachtneming van een magnetisch veld, ELEC, 1946.11.27, cum laude, *prof.jhr.dr. G.J. Elias*

341 Sijbrand Broersma, Magnetic

measurements on organic compounds, PHYS, 1947.01.09, cum laude, *prof.dr. R. Kronig*

342 Jacob Hendrik Edelman, Over de

berekening van grondwaterstromingen, CIVI, 1947.01.28, *prof.ir. J.T. Thijse, prof.dr. O. Bottema*

- 343 Siebold Frederik Bohlken**, Bijdrage tot de bepaling van de bestendigheid van vuurvaste chamottestenen tegen desintegratie door koolmonoxyde, CHEM. 1947.01.28, *prof.dr.ir. C.J. van Nieuwenburg*
- 344 Charles Gerardus Theodorus Petrus Schnellen**, Onderzoekingen over de methaangisting, CHEM. 1947.03.26, *prof.dr. A.J. Kluyver*
- 345 Barend Visser**, Toepassing van de kansberekening op den regenval met het oog op polderbemaling, CIVI. 1947.04.23, *prof. J.M. Tienstra, prof.dr. O. Bottema*
- 346 Roelof Maarten Marie Oberman**, The bridge marker key automatic switching system, ELEC. 1947.05.28, cum laude, *prof.dr.ir. W.Th. Bähler*
- 347 Mathijs Gevers**, The relation between the power factor and the temperature coefficient of the dielectric constant of solid dielectrics, PHYS. 1947.06.04, *prof.dr. C. Zwikker*
- 348 Bartholomeus Meindert Wepster**, Onderzoekingen over sterische beïnvloeding van mesomerie, CHEM. 1947.06.04, cum laude, *prof.dr.ir. P.E. Verkade*
- 349 Martinus Gerardus Ydo**, Plezier in het werk. Een statistisch vergelijkend onderzoek naar de mate van plezier in het werk bij het personeel van enige middelgrote, particuliere, industriële bedrijven in ons land, HASS. 1947.06.30, *prof.dr.ir. J. Goudriaan*
- 350 Martin Jan Breuning**, Vrachtautovoervoer, publiekrechtelijke regeling van het motorisch goederenvervoer langs landwegen, ADMI. 1947.07.01, *prof.mr. A.C. Josephus Jitta*
- 351 Tchen Chan Mou**, Mean value and correlation problems connected with the motion of small particles suspended in a turbulent fluid, MECH. 1947.07.01, cum laude, *prof.dr. J.M. Burgers*
- 352 George Arnold Maria Diepen**, De oplosbaarheid van vaste stoffen in superkritische gassen, CHEM. 1947.07.09, cum laude, *prof.dr. E.E.C. Scheffer*
- 353 Wilhelm Götz Stephan**, Practische toepassingen op het gebied der algebraïsche optica, PHYS. 1947.09.17, *prof.dr. A.C.S. van Heel*
- 354 Flores Helkker**, On concentric optical systems, PHYS. 1947.09.24, *prof.dr. A.C.S. van Heel*
- 355 Tjoeng Tin Fong**, Arbeidstoestanden en arbeidsbescherming in Indonesië, HASS. 1947.10.16, *prof.mr.dr. J.A. Venaart*
- 356 Nicolaas Daniël Rudolph Schaafsma**, De verwijdering van organische stoffen uit oppervlaktewater, in het bijzonder uit veenwater in Nederlands-Indië, LEFF. 1947.10.23, *prof.dr.ir. H.I. Waterman*
- 357 Johannes Adrianus Haringx**, Over sterk samendrukbare schroefveren en rubberstaven en over hun toepassing bij trillingsvrije opstellingen, MECH. 1947.12.10, cum laude, *prof.dr.ir. C.B. Biezema*
- 358 Geldolph Adriaan Kohnstamm**, De toekomst van Nederlands industriële ontwikkeling, een technisch-economische studie, HASS. 1947.12.10, cum laude, *prof.mr.dr. J.A. Venaart*
- 359 Johan Hendrik Greidanus**, De belasting van vliegtuigen door symmetrische remousstooten, AERO. 1947.12.17, cum laude, *prof.dr.ir. H.J. van der Maas*

360 Jan Visman, De monsterneming van heterogene binomiale korrelmengsels, in het bijzonder steenkool, GEOS, 1947.12.17, *prof.dr. C.L. van Nes, prof.dr. S.C. van Veen*

361 Marcel Gérard Diehl, Beschouwingen over bimetaal met betrekking tot zijn toepassing in thermische maximumrelais, ELEC, 1948.04.14, *prof.dr.ir. H.S. Hallo*

362 Arend Maarten Haas, De berekening van paddestoelvoeren, CIVI, 1948.04.14, *prof.ir. P.P. Bijlaard*

363 Hendrik Antonie Leniger, De technologie van het verflensen van theeblad, LIFE, 1948.06.09, cum laude, *prof.dr.ir. G. van Iterson*

364 Willem Marcus du Chattel, Rente en afschrijving als functie van de netto-opbrengst. Beschouwingen over het vraagstuk van de afschrijving, HASS, 1948.06.23, *prof.dr. ir. J. Goudriaan*

365 Godfried Johan van der Bie, Koperverbindingen in latex en rubber en hun invloed op de duurzaamheid, CHEM, 1948.07.07, *prof.dr.ir. A. van Rossem*

366 Dirk Roelof Kreger, An X-Ray Study of Waxy Coatings from Plants, LIFE, 1948.07.07, cum laude, *prof.dr.ir. G. van Iterson, prof.dr. H.B. Dorgelo*

367 Wilhelm Petrus Robbertse, Over de verdichtings- en verdunningsverschijnselen in een gas veroorzaakt door de stoot van een zuiger met zeer hoge snelheid, MECH, 1948.10.20, *prof.dr. J.M. Burgers, prof.dr. S.C. van Veen*

368 Paul Wintgens, Slaand boren met hardmetaal, MECH, 1948.10.20, *prof.ir. C.L. van Nes*

369 Anton Dammes de Pater, Inleidend onderzoek naar het dynamisch gedrag van spoorstaven, MECH, 1948.11.10, *prof.dr.ir. C.B. Biezeno*

370 Gerrit Feiko Janssonius, Nieuwe vereffeningsmethoden voor het berekenen van balkroosters, CIVI, 1948.11.10, *prof.ir. P.P. Bijlaard, prof.ir. C.G.J. Vreedenburgh*

371 Hendrik Adolf Lauwerier, Axiomatische onderzoeken over de vlakke meetkunde, PHYS, 1948.11.24, *prof.dr. O. Bottema*

372 Hendrik Johannes Selling, Enige toepassingen van de spectrofotometrie en colorimetrie in de textiel- en papierindustrie, PHYS, 1949.03.23, *prof.dr. A.C.S. van Heel*

373 Johannes Gerardus Niesten, Het registreren van polaire diagrammen van harmonische grootheden met behulp van electronenstraaloscillograaf en camera, speciaal met betrekking tot de opname van polaire stroomfiguren aan asynchrone draaistroommachines, ELEC, 1949.04.13, *prof.ir. M. de Lange*

374 Hendrik Mol, Theorie van de wisselstroombel, ELEC, 1949.05.25, *prof.dr.ir. W.Th. Bühler*

375 Charles Thomas Nix, Bijdrage tot de vormleer van de stedenbouw in het bijzonder voor Indonesië, ARCH, 1949.06.22, *prof.ir. M.J. Granpré Molière*

376 Charles Eduard Marie de Kuijper, Bijdrage tot de berekening van de spreidingsreactantie van transformatoren en van de krachten welke op de wikkelingen van transformatoren werken, ELEC, 1949.11.09, cum laude, *prof.dr.ir. H.G. Nolen*

- 377 Engelbert Wiegman van Heuven**, Acoustical measurements on church-bells and carillons, PHYS. 1949.12.21, *prof.dr. M.J. Druyvesteyn*
- 378 Jakob Tjakko Groenman**, Behandeling van de koppelkromme met behulp van isotrope coördinaten, MATH. 1950.02.22, *prof.dr. O. Bottema*
- 379 Eugène Henri François van der Lely**, Een bijdrage tot de economische betekenis van het energieverbruik. Een technisch-economische studie, ENER. 1950.02.22, *prof.mr.dr. J.A. Veraart*
- 380 Willem May**, Röntgenografisch onderzoek van aluminiumkristallen, ontstaan door rekristallisatie, MATH. 1950.06.07, *prof.dr. W.G. Burgers*
- 381 Cornelis Emilius Mulders**, Ultrasonen nagalmmetingen in vloeistoffen, PHYS. 1950.06.07, *prof.dr. R. Kronig*
- 382 Teunis Dijs**, De bereiding van natriumhydrosulfiet, CHEM. 1950.07.05, *prof.dr.ir. H.I. Waterman, prof.ir. J.G. Hoogland*
- 383 Christiaan Anne van Gunst**, De oplosbaarheid van mengsels van vaste stoffen in superkritische gassen, CHEM. 1950.10.18, cum laude, *prof.dr. F.E.C. Scheffer*
- 384 Adriaan Pieter Oele**, De ontsluiting van steenkool, CHEM. 1950.11.22, *prof.dr.ir. H.I. Waterman*
- 385 Hendrik Lambertus Muller**, Wachttijdproblemen bij bediening van een groep machines, MATH. 1951.01.10, *prof.dr. S.C. van Veen, prof.ir. R. van Hasselt*
- 386 Pieter Maarten de Wolff**, Bijdragen tot de theorie en praktijk van röntgenografische quantitative bepalingen met de poederdiffractie-methode, PHYS. 1951.02.14, *prof.dr. H.B. Dorgelo*
- 387 Arie Hendrik Boerdijk**, Vector representations of differential equations, their solutions and the derivatives thereof, MATH. 1951.04.11, *prof.dr.ir. J.P. Schouten*
- 388 Gerardus Martinus Maria Houben**, Het adsorptieve gedrag van aluminiumoxyde, CHEM. 1951.06.20, *prof.dr. J.H. de Boer*
- 389 Hendrik van Olphen**, Chemical treatment of drilling fluids. A colloid chemical and rheological study, CHEM. 1951.06.27, *prof.ir. H. Eilers*
- 390 Jan van Steenis**, Reacties van waterstofatomen met vloeibare koolwaterstoffen, CHEM. 1951.06.27, *prof.dr.ir. H.I. Waterman, prof.dr. J.H. de Boer*
- 391 Johan Christoph Schönfeld**, Voortplanting van getijden en soortgelijke golven. (Propagation of tides and similar waves), MATH. 1951.07.04, *prof.dr. H. Bremekamp*
- 392 Jap Kie Ling**, Suggestions for improved control in cane sugar-factories, MECH. 1951.07.04, *prof.ir. L.H. de Langen*
- 393 Sybrandus Gerhardus Wiechers**, Grondslag ontwikkeling en toepassing van de ronde electro-dialysecel, CHEM. 1951.07.04, *prof.dr.ir. H.I. Waterman*
- 394 Jacques Balhan**, Meringen aan enige bij scheepsschroeven gebruikelijke profielen in vlakke stroming met en zonder cavitatie, MATH. 1951.07.09, *prof.ir. L. Troost*
- 395 Jan Dirk van Manen**, Invloed van de ongelijkmatigheid van het snelheidsveld op het ontwerp van scheepsschroeven, MATH. 1951.07.09, *prof.ir. L. Troost*
- 396 Willem Petrus Roelofs**, A critical and econometrical study in 'social credit', HASS. 1951.10.17, *prof.mr.dr. J.A. Vernaart, prof.dr. H. Bremekamp*

- 397 Johannes Rendel de Jong**, Onderzoekingen naar de nauwkeurigheid van tijdnormen voor menselijke arbeid, HASS. 1951.11.28, *prof.dr. R. van Hasselt, prof.dr. S.C. van Veen*
- 398 Gehard George Baylé**, Evenwichten bij hoge druk tussen fluide fasen in binaire en ternaire systemen met ontmenging, CHEM. 1951.11.28, cum laude, *prof.dr. F.E.C. Scheffer*
- 399 Mauritius Arnoldus du Toit Meyer**, Some aspects of the hardness of metals, MATE. 1951.12.12, *prof.dr. M.J. Druyvesteyn*
- 400 Tiede Johan Tiedema**, Onderzoekingen over de kiemvorming en de groeisnelheid bij de rekristallisatie van aluminium, MATE. 1951.12.12, *prof.dr. W.G. Burgers*
- 401 Robert Rademaker**, Synthese van een reeks aan equilenine structureel verwante verbindingen, CHEM. 1951.12.19, *prof.dr.ir. P.E. Verkade*
- 402 George Sybrand van der Vlies**, De toepassing van ionenuitwisselaars bij de sapzuivering in de suikerindustrie, CHEM. 1951.12.19, *prof.dr.ir. H.I. Waterman*
- 403 Jan de Jong**, De doorlating van glas in het ultraviolet, PHYS. 1952.02.27, cum laude, *prof.dr. M.J. Druyvesteyn*
- 404 Anton Eduard Pannenberg**, On the scattering matrix of symmetrical waveguide junctions, PHYS. 1952.02.27, cum laude, *prof.dr. R. Kronig*
- 405 Hendricus Gerardus Loos**, Enige beschouwingen over de grenslaaginterferentie bij de aansluiting van een draagvlak en een wand, AERO. 1952.04.02, *prof.dr. L.J.F. Braer*
- 406 Adriaan Isak van de Vooren**, Theory and practice of flutter calculations for systems with many degrees of freedom, MATH. 1952.04.02, cum laude, *prof.dr.ir. A. van der Neut, prof.dr. S.C. van Veen*
- 407 Willem van Loon**, De vergassing van koolstof met zuurstof en stoom, CHEM. 1952.04.09, cum laude, *prof.dr.ir. H.I. Waterman*
- 408 Frederik Johan Plantema**, Theory and experiments on the elastic overall instability of flat sandwich plates, AERO. 1952.05.07, *prof.dr.ir. A. van der Neut*
- 409 Cornelis Boelhouwer**, Polymerisatie-verschijnselen bij vette oliën, CHEM. 1952.05.07, *prof.dr.ir. H.I. Waterman*
- 410 Wilhelmus Verhoeven**, Aerobic sporeforming nitrate reducing bacteria, LIFE. 1952.05.21, cum laude, *prof.dr. A.J. Kluyver*
- 411 Willem Albert le Rütte**, Bijdrage tot de electrostatistische electronenoptica, PHYS. 1952.05.28, *prof.dr. H.B. Dorgelo*
- 412 Joannes Petrus van der Walt**, On the yeast *Candida pulcherrima* and its pigment, LIFE. 1952.06.18, *prof.dr. A.J. Kluyver*
- 413 Constantinus Jacobus Johan Nink Blok**, Het lijmen van papier als colloïdchemisch verschijnsel, CHEM. 1952.06.18, *prof.ir. H. Eilers*
- 414 Johan Wessel Holleman**, Bijdrage tot de kennis van het verchromen, MATE. 1952.07.02, *prof.dr.ir. W.F. Brandsma, prof.ir. J.G. Hoogland*
- 415 Leonardus Johannes Revallier**, Nitreerzuren bestaande uit salpeterzuur en zwaveltrioxyde, CHEM. 1952.07.02, cum laude, *prof.dr.ir. P.M. Heertjes*

- 416 Jan Al**, Research als overheidstaak, ADM1, 1952.07.09, *prof.dr.ir. J. W.H. Uytendogaart*
- 417 Harm Boolij**, De moleculaire destillatie als hulpmiddel bij het onderzoek van aardolieresiduen, CHEM, 1952.07.09, *prof.dr.ir. H.I. Waterman*
- 418 Kornelis Rietema**, Study on the compressibility of filtercakes, CHEM, 1952.12.10, *prof.dr.ir. P.M. Heertjes*
- 419 Jan Pieter Fortuin**, De bereiding en toepassingen van enige aromatische hydroperoxyden, CHEM, 1952.12.10, cum laude, *prof.dr.ir. H.I. Waterman*
- 420 Macarius van den Tempel**, Stability of oil-in-water emulsions, CHEM, 1953.03.25, *prof.ir. H. Eilers*
- 421 Heyme Breederveld**, Bijdrage tot de kennis der organische siliciumverbindingen, CHEM, 1953.04.22, *prof.dr.ir. H.I. Waterman*
- 422 Cornelis Bezemer**, Evenwichten vast-fluide bij hoge druk in ternaire systemen, waarin ontmenging optreedt in de vloeistofoestand, CHEM, 1953.04.22, cum laude, *prof.dr. F.E.C. Scheffer*
- 423 Job Giltay**, Bijdrage tot de stochastiek van het telefoonverkeer, in het bijzonder van de volkomen bundel, MATH, 1953.05.06, *prof.dr. S.C. van Veen, prof.dr.ir. W.Th. Bähler*
- 424 Nicolaas Rodenburg**, Some problems relating to a telephone system employing non-homing selectors, ELEC, 1953.05.06, cum laude, *prof.dr.ir. W.Th. Bähler*
- 425 Jan Hendrik Uhlenbroek**, Synthese van fosphatidezuren, CHEM, 1953.06.03, *prof.dr.ir. P.E. Verkade*
- 426 Jan Carel Francken**, Electron optics of the image iconoscope, PHYS, 1953.06.17, cum laude, *prof.dr. H.B. Dorgelo*
- 427 Cornelis Willem Rietdijk**, Lattice-theoretical problems, MATH, 1953.07.01, *prof.dr. F. Loonstra*
- 428 Morton Allan Hyman**, On the numerical solution of partial differential equations, MATH, 1953.07.01, cum laude, *prof.dr. S.C. van Veen*
- 429 Joost Cornelis Platteeuw**, Het systeem tin-zuurstof, CHEM, 1953.07.08, cum laude, *prof.dr. G. Meyer*
- 430 Robert Carel Schonebaum**, Het geleidingsvermogen van electrolytoplossingen in zure media met lage dielectrische constante, MATE, 1953.07.08, *prof.dr. W.G. Burgers*
- 431 Jacobus Johannes Verstappen**, Katalytische polymerisatie van propeen, CHEM, 1953.10.01, *prof.dr.ir. H.I. Waterman*
- 432 Henricus Cornelis Johannes de Jong**, Armature reaction and armature leakage in salient-pole type synchronous machines, ELEC, 1953.10.07, *prof.ir. M. de Lange*
- 433 Johannes Theodorus Quant**, Quantitatieve evenwichtsbepalingen in ternaire stelsels in de nabijheid van het kritisch punt van één der componenten, CHEM, 1953.10.07, cum laude, *prof.dr. F.E.C. Scheffer*
- 434 Herbert Talsma**, Stofuitwisseling tussen water en isobutanol in een druppelkolom, CHEM, 1953.11.04, cum laude, *prof.dr.ir. P.M. Heertjes*
- 435 Adolf Mathijs ter Horst**, Naphtodioxan, enige derivaten en azokleurstoffen, CHEM, 1953.11.25, *prof.dr.ir. P.M. Heertjes*

- 436 Hendrik de Vries**, On the elastic and optical properties of cellulose fibres, MATE, 1953.12.09, *prof.dr. M.J. Druyvesteyn*
- 437 Jan Gerrit van de Vusse**, Mixing by agitation of miscible liquids, PHYS, 1953.12.16, *prof.dr. H. Kramers*
- 438 Antonius Arnoldus Theodorus Maria van Trier**, Guided electromagnetic waves in anisotropic media, ELEC, 1953.12.16, cum laude, *prof.dr. R. Kronig*
- 439 Petrus Gerardus Provoost**, Stootspanningen op transformatoren, ELEC, 1954.01.20, *prof.dr.ir. F.A. Heijn*
- 440 Tjong Kie Tan**, Onderzoekingen over de rheologische eigenschappen van klei, CIVI, 1954.03.24, cum laude, *prof.dr. E.C.W.A. Geuze, prof.dr. J.M. Burgers*
- 441 Dik van Zoonen**, Gasontladingsmechanismen van Geigertelbuizen gevuld met edelgassen en halogenen, PHYS, 1954.05.12, *prof.dr. H.B. Dorgelo*
- 442 Maarten Louis Adriaan Verhaart**, De diffusie bij lage temperatuur met behulp van zwaveligzuur, bij de verwerking van suikerbieten, LIFE, 1954.05.12, *prof.dr.ir. H.I. Waterman*
- 443 Teunis Christiaan van Hoek**, Sterische beïnvloeding van de mesomerie bij aromatische aminoverbindingen met omvangrijke N-alkylgroepen, CHEM, 1954.05.19, cum laude, *prof.dr.ir. P.E. Verkade*
- 444 Wilhelmus Petrus van Oort**, A study of the ageing of asphaltic bitumen, MATE, 1954.05.26, *prof.dr. M.J. Druyvesteyn*
- 445 Jan Adrianus Manintveld**, Change of the resistivity of some face centered cubic metals after cold-working at liquid air temperature, MATE, 1954.05.26, *prof.dr. M.J. Druyvesteyn*
- 446 Bernard Groeneveld**, Geometrical considerations on space kinematics in connection with Bennett's mechanism, MATH, 1954.06.16, *prof.dr. O. Bottema*
- 447 Marius van den Brandhof**, Het vullen van de gietvorm; een bijdrage tot de kennis van de stroming, de viscositeit en het vormvullingsvermogen van gesmolten metalen en metaallegeringen, MATE, 1954.06.23, *prof.dr.ir. W.F. Brandsma, prof.dr. M.J. Druyvesteyn*
- 448 Vedavyasacharya Gururaj Acharya**, Momentum transfer and heat diffusion in the mixing of coaxial turbulent jets surrounded by a pipe, MECH, 1954.06.23, *prof.dr. J.M. Burgers, prof.dr. L.J.F. Broer*
- 449 Boudewijn Okkerse**, Zelfdiffusie in lood, MATE, 1954.10.06, cum laude, *prof.dr. W.G. Burgers*
- 450 Jan Bart Le Poole**, Some designs in electron and ion optics, PHYS, 1954.10.06, cum laude, *prof.dr. H.B. Dorgelo*
- 451 Gerrit Feringa**, The North-Western Free State goldfield. Contribution to the geological interpretation of the recently discovered goldfield in the north-west of the Orange Free State; with special reference to: 1. Structure. 2. Kimberley series, GEOS, 1954.10.13, *prof.dr.ir. F.J. Faber*
- 452 Martinus Joannes Brabers**, Electronische structuur van metalen en overspanning, MATE, 1954.10.13, *prof.dr. W.G. Burgers*
- 453 Petrus Martinus Smolders**, The pulping of straw and hardwood with magnesium monosulphite, CHEM, 1954.12.08, *prof.dr. T. Tromp*

- 454 Alewijn Petrus Burger**, On the asymptotic solution of wave propagation and oscillation problems, MATH. 1955.01.26, cum laude, *prof.dr. R. Timman*
- 455 Willem Kok**, Harmonische orgels, PHYS. 1955.01.26, *prof.dr.ir. C.W. Kosten*
- 456 Jan Andries Meijs**, Constitutie van steenkool, CHEM. 1955.03.30, *prof.dr.ir. H.I. Waterman*, *prof.dr. D.W. van Krevelen*
- 457 Gerrit Schuur**, Some aspects of the crystallization of high polymers, CHEM. 1955.04.06, *prof.dr.ir. A. van Rossem*
- 458 Christiaan van Geel**, Zelfinductie en nawerking in gasontladingen, PHYS. 1955.04.06, cum laude, *prof.dr. H.B. Dorgelo*
- 459 Lukas Hans Ruiter**, Some thermodynamic properties of the system benzene-1,2-dichloroethane, CHEM. 1955.06.01, *mv.prof.dr.ir. A.E. Korvezee*
- 460 Anne Klaas van der Vegt**, A study on the mechanism of wool felting, PHYS. 1955.06.01, *prof.dr.ir. C.W. Kosten*
- 461 Simon Kruyer**, Entropie en beweeglijkheid bij adsorptie op actieve kool, CHEM. 1955.06.29, *prof.dr. J.H. de Boer*
- 462 Johannes Philippus Poley**, Microwave dispersion of some polar liquids, PHYS. 1955.06.29, *prof.dr. R. Kronig*
- 463 Wouter Cornelis van Zijll Langhout**, De zwavelverbindingen der aardolie, CHEM. 1955.07.06, cum laude, *prof.dr.ir. H.I. Waterman*
- 464 Jacob Willem Cohen**, On stress calculations in helicoidal shells and propeller blades, MECH. 1955.07.06, cum laude, *prof.dr.ir. W.T. Koiter*
- 465 Johannes Marinus Hendrikus Fortuin**, Aluminiumoxyde als chromatografisch adsorbens, CHEM. 1955.10.12, cum laude, *prof.dr. J.H. de Boer*
- 466 Wilhelmus Anthonius Josephus Luxemburg**, Banach function spaces, MATH. 1955.10.12, cum laude, *prof.dr. A.C. Zaanen*
- 467 Leendert Bosch**, Biochemische en endocrinologische onderzoeken van normaal en neoplastisch weefsel, LIFE. 1955.11.16, *prof.dr. W. Berends*
- 468 Jan Willem Hendrik Zijp**, Toepassing van de papierchromatographie bij de identificatie van in de rubberindustrie gebruikelijke versnellers en antioxydanten, CHEM. 1955.11.16, *prof.dr.ir. A. van Rossem*
- 469 Johannes Joseph Steggerda**, De vorming van actief aluminiumoxyde, CHEM. 1955.12.07, cum laude, *prof.dr. J.H. de Boer*
- 470 Coenraad Lucius de Booij**, Faraday-effect en structuur van verzadigde koolwaterstofmengsels, CHEM. 1955.12.07, *prof.dr.ir. H.I. Waterman*, *prof.Dipl.-Ing. J.B. Westerdijk*
- 471 Johan Berghuis**, The method of critical regions for two-dimensional integrals and its application to a problem of antenna theory, MATH. 1955.12.14, *prof.dr. R. Timman*
- 472 Leendert Johannes Stegerhoek**, Esters en phosphatidezuren van barylalcohol, CHEM. 1956.01.25, *prof.dr.ir. P.E. Verkade*
- 473 Bernardus Isabella Constantinius Florentius van Pul**, Onderzoek naar factoren, die de ozonbestendigheid van natuurrubber vulcanisaten beïnvloeden, CHEM. 1956.03.21, *prof.dr.ir. A. van Rossem*

- 474 **Harry Geelen**, Het onderzoek van koolwaterstoffen met behulp van de voortplantingssnelheid van ultrasonore trillingen, CHEM, 1956.05.23, *prof.dr.ir. H.I. Waterman, prof.Dipl.-Ing. J.B. Westerdijk*
- 475 **Fridolin Jacob Ritter**, The improvement of the low-temperature behaviour of natural rubber vulcanizates by chemical modification with thiol acids, CHEM, 1956.06.27, *prof.dr.ir. A. van Rossem*
- 476 **Jan Lourens Bordewijk**, Inter-reciprocity applied to electrical networks, ELEC, 1956.06.27, *prof.ir. B.D.H. Tellegen*
- 477 **Petrus van Reinouts van Haga**, Bijdrage tot de kennis der biosynthese van de alkaloiden bij *Atropa belladonna* L, LIFE, 1956.07.04, *prof.dr. P.A. Roelofs*
- 478 **Gerrit Willem Tichelaar**, Onderzoek over de mengkristallen van KCl en NaCl, MATE, 1956.07.04, cum laude, *prof.dr. W.G. Burgers, mu.prof.dr.ir. A.E. Korvezee*
- 479 **Pieter Adrianus Neeteson**, Analysis of bistable multivibrator operation, ELEC, 1956.07.05, *prof.ir. B.D.H. Tellegen*
- 480 **Dénes Szabó Sarkadi**, Associatie en dampspanning van stearinezuur en andere vetzuren, CHEM, 1956.07.05, *prof.dr. J.H. de Boer*
- 481 **Diederik Hendrik Nugteren**, Over de structuur van bongkrekzuur, LIFE, 1956.10.31, *prof.dr. W. Berends*
- 482 **Luiken Jan Groen**, Kinetiek van de allotrope omzetting in tin, MATE, 1956.10.31, *prof.dr. W.G. Burgers*
- 483 **Willem Johan Taat**, A contribution to the understanding of the oxidation mechanism in mineral oils of low aromatic content, CHEM, 1956.11.14, *prof.dr.ir. H.I. Waterman, prof.dr. G. Meyer*
- 484 **Hendrikus Ludovicus Beckers**, Heat transfer in turbulent tube flow, PHYS, 1956.11.14, *prof.dr. J.A. Prins*
- 485 **Cornelis Willem Berghout**, Enkele aspecten van het gedrag van de elektrische weerstand na plastische deformatie, MATE, 1956.11.28, cum laude, *prof.dr. M.J. Druyvesteyn*
- 486 **Jacob Schenk**, Enige onderzoekingen in verband met de moleculaire bouw van amorfe zwavel, PHYS, 1956.11.28, *prof.dr. J.A. Prins*
- 487 **Herman Longinus Kies**, Theorie en toepassingen van titraties volgens de methode van het 'Dead-Stop' eindpunt, CHEM, 1956.12.19, cum laude, *prof.dr. P. Karsten*
- 488 **Otto Ernst van Lohuizen**, De verhuizing van acylgroepen bij monoglyceriden, CHEM, 1957.01.16, *prof.dr.ir. P.E. Verkade*
- 489 **Marius Robert Mantz**, Harmonische bedrijfsvoering, HASS, 1957.01.16, *prof.ir. B.W. Berenschot*
- 490 **Johannes Cornelis de Man**, Over aardappelvezel en haar toepassing bij het ensileren van gras, LIFE, 1957.02.13, *prof.dr. P.A. Roelofs*
- 491 **Johannes Muller**, Directe hydratatieprocessen van aetheen en propeen ter bereiding van aethyl- en isopropylalcohol, CHEM, 1957.02.13, *prof.dr.ir. H.I. Waterman*

- 492 Dirk Thoenes**, Stofoverdracht bij stroming door een vast bed van korrelig materiaal, PHYS, 1957.03.06, *prof.dr. H. Kramers*
- 493 Nicolay Heinrich Knudtson**, Theoretical comparison of fluctuation noise characteristics for various modulation methods with special view to multi-channel system planning, ELEC, 1957.03.06, cum laude, *prof.dr.ir. J.L. van Soest*
- 494 Cornelis Maclean**, Nieuwe onderzoekingen over magnetische resonantie, PHYS, 1957.04.03, *prof.dr. H.B. Dorgelo, prof.dr. R. Kronig*
- 495 Maurits Willem Geerlings**, Eigenschappen van glaselectroden en neutralisatieprocessen met betrekking tot de automatische regeling van de pH, CHEM, 1957.04.10, *prof.ir. H. Kramers*
- 496 Jan Willem Klinkenberg**, Aromatic formation in the polymerization of ethene with heteropoly acid catalysts, CHEM, 1957.04.10, *prof.dr.ir. H.I. Waterman*
- 497 Leonardus Cornelis Antonius van Leeuwen**, Ring extension theory, MATH, 1957.04.17, *prof.dr. F. Loonstra*
- 498 Johannes Pieter van Es**, Warmte- en stofoverdracht bij condensatie van een binair dampmengsel, CHEM, 1957.04.17, *prof.dr.ir. P.M. Heertjes*
- 499 Johannes Cornelissen**, Viskositeit en andere fysische constanten in afhankelijkheid van temperatuur en chemische structuur, CHEM, 1957.05.15, *prof.dr.ir. H.I. Waterman*
- 500 Diederik Jan van Ooijen**, The thermoelectric power of copper, silver and gold after coldworking, MATE, 1957.05.15, *prof.dr. M.J. Druyvesteyn*
- 501 Antonius Bernardus Christianus van Doorn**, Grafiëtoxyde, CHEM, 1957.05.22, *prof.dr. J.H. de Boer*
- 502 Jacques Abraham Waterman**, Mechanism of emulsion polymerization of butadienestyrene with 'redox recipes', CHEM, 1957.05.29, cum laude, *prof.dr. J.H. de Boer*
- 503 Hendrik de Lange**, Attenuation characteristics and phase shift characteristics of the human fovea-cortex systems in relation to flicker phenomena, LIFE, 1957.06.05, *prof.dr.ir. J.L. van Soest*
- 504 Willem Brouwer**, The use of matrix algebra in geometrical optics, PHYS, 1957.06.19, *prof.dr. A.C.S. van Heel*
- 505 Simon Duinker**, General properties of frequency-converting networks, ELEC, 1957.06.19, *prof.ir. B.D.H. Tellegen*
- 506 Herman de Boer**, De commissarisfunctie in Nederlandse, ter beurze genoteerde, industriële naamloze vennootschappen, bezien van organisatorisch gezichtspunt, ADML, 1957.07.03, *prof.ir. W. Fontein*
- 507 Joseph Johannes Theresia Maria Geerards**, De inwerking van waterstof op steenkool, aromaten en koolydraten onder invloed van jodium, CHEM, 1957.07.03, *prof.dr.ir. H.I. Waterman, prof.dr. D.W. van Krevelen*
- 508 Johannes Bartholomeus Alblas**, Theorie van de driedimensionale spanningstoestand in een doorboorde plaat, MECH, 1957.07.03, cum laude, *prof.dr.ir. W.T. Koiter*
- 509 Jan Stuffken**, De mijngasafgifte van kolenlagen, GEOS, 1957.07.04, *prof.ir. T.R. Seldenrath, prof.dr. D.W. van Krevelen*

- 510 Kornelis Klammer**, Karakterisering van ionenwisselaars in verband met hun toepassing bij de bereiding van ketelvoedingwater, CHEM, 1957.07.04, *prof.dr. D.W. van Krevelen*
- 511 Keith Meredith Adams**, On the synthesis of three-terminal networks composed of two kinds of elements, ELEC, 1957.10.16, *prof.dr. B.D.H. Tellegen*
- 512 Adrianus Jan van Triet**, Over de zuivering van antidifterie- en antitetanusplasma, LIFE, 1957.10.16, *prof.dr. W. Berends*
- 513 Hendrik Jacobus Merk**, Stofoverdracht in laminaire grenslagen door gedwongen convectie, PHYS, 1957.10.23, *prof.dr. J.A. Prins*
- 514 Anton Bernhard Rudolf Weber**, Hydro-isomerization of paraffin wax, CHEM, 1957.11.27, *prof.dr.ir. H.I. Waterman*
- 515 Reinier Albert Titus Ocko Nijsing**, Absorptie van gassen in vloeistoffen, zonder en met chemische reactie, CHEM, 1957.11.27, *prof.dr. H. Kramers*
- 516 Carel Johannes Hendrik Wevers**, Onderzoek van ionenwisselaars met behulp van percolatietechniek, PHYS, 1957.12.11, *prof.dr. H. Kramers*
- 517 Ong Tjing Gie**, Warintedoorgang en kristallisatie, CHEM, 1957.12.11, *prof.dr.ir. P.M. Heertjes*
- 518 Marginus Oosting**, Enige beschouwingen in verband met de bepaling van sporenelementen in organisch materiaal, CHEM, 1958.01.29, *prof.dr.ir. C.J. van Nieuwenburg*
- 519 Willem Frederik du Bois**, Vezelwrijving en vezelparalleliteit, CHEM, 1958.01.29, *prof.dr.ir. J.W.H. Uytendogaart*
- 520 Adrianus Teunis de Hoop**, Representation theorems for the displacement in an elastic solid and their application to elastodynamic diffraction theory, PHYS, 1958.02.12, *prof.dr.ir. J.P. Schouten*
- 521 Pieter Mars**, De kinetika van oxydatiereacties op vanadiumhoudende katalysatoren, CHEM, 1958.03.12, *prof.dr. J.H. de Boer, prof.dr. D.W. van Krevelen*
- 522 Hendrik Lourens Hagedoorn**, Metingen met een proportionele teller bij beta-desintegratie, PHYS, 1958.04.02, *prof.dr. A.H. Wapstra*
- 523 Raden Mas Soemantri**, Aspects on gas chromatography and selective hydrotreating, CHEM, 1958.04.23, *prof.dr.ir. H.I. Waterman*
- 524 Hendrik Willem Joseph Kempen**, Thermische omzetting van gasvormige koolwaterstoffen (raffinaderijgas) met stoom, CHEM, 1958.05.07, *prof.dr.ir. H.I. Waterman, prof.dr. D.W. van Krevelen*
- 525 Jan Snieder**, Ferromagnetic resonance in polycrystalline ferrites, PHYS, 1958.06.04, *prof.dr. R. Kronig*
- 526 Bastiaan de Raad**, Dynamic and static measurements of strongly inhomogeneous magnetic fields, ELEC, 1958.06.04, *prof.dr.ir. F.A. Heijn*
- 527 Huibert Johannes Dirksen**, Fotogeleiding in cadmium-selenide, PHYS, 1958.06.15, *prof.dr. M.J. Druyvesteyn*
- 528 Willem Alexander Dekker**, Enkele onderzoeken over de absorptiesnelheid van NO₂ in water, CHEM, 1958.06.25, *prof.dr. H. Kramers*

529 Petrus Maria Beneken genaamd Kolmer, De toepassing van silicowolframzuur als katalysator voor chemische processen, CHEM, 1958.06.25, *prof.dr. ir. H.I. Waterman*

530 Pieter Jacobus Bakker, Porositeitsmetingen in een gefluidiseerd bed, CHEM, 1958.07.02, *prof.dr. ir. P.M. Heertjes*

531 Pieter Willem van der Poel, Suikerwinning door extractie bij lage temperatuur, CHEM, 1958.07.02, *prof.dr. ir. H.I. Waterman*

532 Franciscus Johannes Maria Nieuwenhuis, Bereiding en eigenschappen van lage-druk polyethenen (Ziegler-proces), CHEM, 1958.07.09, *prof.dr. ir. H.I. Waterman*

533 Jacob Willem Emile Coenen, Onderzoek van technische nikkelkatalysatoren op drager, MATE, 1958.07.09, *prof.dr. W.G. Burgers, prof.dr. J.H. de Boer*

534 Bob van Nooijen, Some methods in nuclear spectroscopy, PHYS, 1958.09.24, *prof.dr. A.H. Wapstra*

535 Joseph Konijn, Experiments on nuclides decaying by positron emission and electron capture, PHYS, 1958.09.24, *prof.dr. A.H. Wapstra*

536 Jan Marinus Oelderik, Alkylatie- en transalkylatieprocessen voor de fabricage van isopropylbenzenen, CHEM, 1958.10.15, cum laude, *prof.dr. ir. H.I. Waterman*

537 Jan Willem Maurits la Rivière, On the microbial metabolism of the tartaric acid isomers, LIFE, 1958.11.05, *prof.dr. T.O. Wiken*

538 Johan Adolf Sparenberg, Applications of the Hilbert problem to problems of mathematical physics, MATH, 1958.11.05, *prof.dr. R. Timman*

539 Tjeerd Hoekstra, Chemische reacties onder invloed van gasontladingen en gammastraling, CHEM, 1958.11.26, *prof.dr. ir. H.I. Waterman, prof. Dipl.-Ing. J.B. Westerdijk*

540 Reint Bult, Met lijnolie gemodificeerde alkydharsen. Onderzoekingen met behulp van fractioneren, CHEM, 1958.12.17, *prof.dr. ir. P.M. Heertjes*

541 Pierre Marie Joseph Wolfs, Chemische en fysische aspecten van de cokesbereiding, CHEM, 1959.01.28, cum laude, *prof.dr. D.W. van Krevelen, prof.dr. ir. H.I. Waterman*

542 Egbert van Spiegel, Boundary value problems in lifting surface theory, MATH, 1959.02.04, cum laude, *prof.dr. R. Timman*

543 Arij Bolk, Het Kirkendall-effect in het systeem goud-platina, MATE, 1959.02.04, *prof.dr. W.G. Burgers, nuw. prof.dr. ir. A.E. Korvezee*

544 Gerard de Josselin de Jong, Statics and kinematics in the failable zone of a granular material, CIVI, 1959.02.18, cum laude, *prof. ir. E.C.W.A. Geuze*

545 Johannes Maria Vleeskens, De rol van OH-groepen in silica, CHEM, 1959.03.11, *prof.dr. J.H. de Boer*

546 Johannes Asijee, Proeven over de warmte-afvoer van een splijstofelement uit een kernreactor van het kokend water type, PHYS, 1959.04.08, *prof. ir. H. Kramers*

- 547 **Aart Johannes Stam**, Some mathematical properties of quantities of information, ELEC, 1959.04.08, cum laude, *prof.dr.ir. J.L. van Soest*
- 548 **Pieter Kooiman**, Onderzoek van amyloid uit zaden, LIFE, 1959.04.15, *prof.dr. P.A. Roelofsen*
- 549 **Jacob Theodoor Knegtel**, Het gedrag van carbonzuren in de Fischer-Tropsch synthese, CHEM, 1959.04.15, *prof.dr.ir. H.I. Waterman*
- 550 **Jacobus Vermeer**, On the mechanism of dielectric breakdown in glass and its relation to electrical conduction, ELEC, 1959.04.29, *prof.dr. M.J. Druyvesteyn*, *prof.dr. J.J. Went*
- 551 **Arie van Loon**, Invloed van sterische belemmeringen van mesomerie op de absorptiespectra van amino-azoverbindingen in neutraal en zuur milieu, CHEM, 1959.06.17, *prof.dr.ir. P.E. Verkade*
- 552 **Johannes Stellingwerff**, Werkelijkheid en grondmotief bij Vincent Willem van Gogh, HASS, 1959.06.24, *prof.dr. A.M.W.J. Hammacher*
- 553 **Yvonne Marie Fernande Muller**, Bijdrage tot de kennis der alkaloiden van Sedum acre L, CHEM, 1959.06.24, *prof.dr.ir. P.E. Verkade*
- 554 **Joseph Johannes Franciscus Scholten**, Chemisorption of nitrogen on iron catalysts in connection with ammonia synthesis, CHEM, 1959.07.01, *prof.dr. J.H. de Boer*
- 555 **Arno Johannes Schocher**, Ein Beitrag zur Kenntnis der Wachstums und Gärungsphysiologie der saccharolytischen Clostridien, LIFE, 1959.07.08, *prof.dr. T.O. Wiken*
- 556 **Gerardus Stephanus Alphonsus van Welie**, Evenwichtsmetingen tot duizend atmosfeer in binaire koolwaterstofstelsels, CHEM, 1959.07.08, cum laude, *prof.dr.ir. G.A.M. Diepen*
- 557 **Kees Teer**, Some investigations on redundancy and possible bandwidth compression in television transmission, ELEC, 1959.09.23, cum laude, *prof.ir. M.P. Breedveld*
- 558 **Ong Sing Poen**, Microprojection with X-rays, PHYS, 1959.09.23, cum laude, *prof.dr.ir. J.B. Le Poole*
- 559 **Willem Martin Jozef Schlösser**, Meten aan verdringerpompen, MECH, 1959.10.21, *prof.ir. E.F. Boon*
- 560 **Pieter Dirk Davidse**, Bereiding en onderzoek van polyetheen (Phillips-proces), CHEM, 1959.10.21, *prof.dr.ir. H.I. Waterman*, *prof.Dipl.-Ing. J.B. Westendijk*
- 561 **Johan Adriaan Rietdijk**, Metingen aan vrije supersone stralen, AERO, 1959.10.28, *prof.dr. L.J.F. Broer*
- 562 **Cornelis Antonius Verbraak**, Martensitic aspects of the nucleation of the cube-texture in copper, MATE, 1959.11.18, cum laude, *prof.dr. W.G. Burgers*
- 563 **Adriaan Walther**, Optical applications of solid glass spheres, PHYS, 1959.11.18, cum laude, *prof.dr. A.C.S. van Heel*
- 564 **Johannes George Westra**, Het systeem aniline-zwavel-dioxyde-water, CHEM, 1959.12.16, *prof.dr. G. Meyer*, *prof.dr.ir. G.A.M. Diepen*
- 565 **Felix Franciscus Cornelius Bruijning**, De elektrische rem bij railvoertuigen, ELEC, 1959.12.16, *prof.ir. W. Fontein*

- 566 Aernoudt Willem van Haeften**, Topological considerations on some properties of refractory products, PHYS, 1960.01.13, *prof.dr. M.J. Druyvesteyn, prof. C. Schouten*
- 567 Nicolaas Petrus Maria de Wit**, De directe synthese van methylchloorsilanen in een gefluïdiseerd bed, CHEM, 1960.01.13, *prof.dr.ir. H.I. Waterman, prof.ir. E.F. Boon*
- 568 Khoe Kong Tat**, The isochronous cyclotron, ELEC, 1960.01.20, cum laude, *prof.dr.ir. F.A. Heijn*
- 569 Jan Buiten**, Demethylering en scheiding van pyridinebasen uit cokesovengas, CHEM, 1960.03.16, *prof.dr. D.W. van Krevelen*
- 570 Jakob Smidt**, Metingen aan steenkool met behulp van magnetische resonantiemethoden, PHYS, 1960.03.16, cum laude, *prof.dr. D.W. van Krevelen, prof.dr. B.S. Blaisse*
- 571 Bartolomeus Meindert Korevaar**, De invloed van roosterfouten op de soortelijke weerstand van enige goud-koperlegeringen, MATE, 1960.03.30, *prof.dr. M.J. Druyvesteyn*
- 572 Karel Jan van Oostrum**, Measurements with ($P\gamma$) reactions, PHYS, 1960.03.30, *prof.dr. A.H. Wapstra*
- 573 Herman Jacob Heijn**, Representations of switching functions and their application to computers, MATH, 1960.05.04, *prof.dr.ir. L. Kosten, prof.dr. R. Timman*
- 574 Willem Jan van Asselt**, Oxydatic van cyclohexanol met behulp van salpeterzuur, CHEM, 1960.05.11, cum laude, *prof.dr. D.W. van Krevelen*
- 575 Derk Theodoor Adriaan Huibers**, Characterisation of the selectivity of chemical processes with experimental applications to paraffin wax cracking, CHEM, 1960.05.11, *prof.dr.ir. H.I. Waterman, prof.dr.ir. J.C. Vlughter*
- 576 Hendrik Jan Kraaijveld**, De inwerking van een gasontlading op koolwaterstoffen, CHEM, 1960.05.25, *prof.dr.ir. H.I. Waterman, prof.dr.ir. J.C. Vlughter*
- 577 Willy Jan Hendriks**, Dehydrogenering van naftenen en hydrogenering van zwavelverbindingen, CHEM, 1960.05.25, *prof.dr.ir. H.I. Waterman, prof.dr.ir. J.C. Vlughter*
- 578 Pieter Antonie Johan Scheelbeek**, On the geometry of zeros of a class of functions of a quaternion variable, MATH, 1960.06.22, *prof.dr. L. Kuipers*
- 579 Johannes van der Ster**, The production of liquid nitrogen from atmospheric air using a gas refrigerating machine, MECII, 1960.06.22, *prof.dr.ir. L. Våhl, prof.ir. H. Kramers*
- 580 Leendert Blom**, Analytical methods in coal, CHEM, 1960.06.29, cum laude, *prof.dr. D.W. van Krevelen*
- 581 Nico Valentinus Franssen**, Some considerations on the mechanism of directional hearing, LIFE, 1960.07.06, *prof.dr.ir. J.L. van Soest*
- 582 Robert Beukers**, Chemische omzettingen bij de bestraling van nucleinezuren met ultraviolet licht, CHEM, 1960.10.26, *prof.dr. W. Berends*
- 583 Franciscus Cornelis Eversteijn**, Bijdrage tot de kennis van structuur en eigenschappen van glas, CHEM, 1960.10.26, *prof.dr.ir. H.I. Waterman, prof.dr.ir. J.C. Vlughter*

- 584 Huibert Johan van Oort**, Onderzoekingen aan een verstelbare supersonische diffusor met luchtinjectie, AERO, 1960.11.09, *prof.dr. L.J.F. Broer*
- 585 Lambertus Joseph van der Toorn**, Ontmenging van goud-platina legeringen, MATE, 1960.11.09, *prof.dr. W.G. Burgers*
- 586 Roelf Jan Meijer**, The Philips Stirling thermal engine, MECH, 1960.11.16, cum laude, *prof.ir. A.H. de Klerck*
- 587 Sie Swan Tiong**, Copolymerisatie van drogende oliën met styreen, CHEM, 1960.11.23, cum laude, *prof.dr.ir. H.I. Waterman*, *prof.dr.ir. J.C. Vlugter*
- 588 Pieter Dijkema**, Innen und Aussen. Die Frage nach der Integration der Künste und der Weg der Architektur, HASS, 1960.11.23, *prof.ir. J.F. Berghoef*, *prof.dr.ir. F.P.A. Tellegen*
- 589 Harmannus Henderikus Lok**, Untersuchungen an Dichtungen für Apparateflansche, MECH, 1960.12.07, *prof.ir. E.F. Boon*
- 590 Hendrik Coenraad Antonie van Beek**, De verschieping van 3-nitroalizarine en 3-nitropurpurine in methanol, CHEM, 1960.12.07, *prof.dr.ir. P.M. Heertjes*
- 591 Christiaan Jan Penning**, Boolean metric spaces, MATH, 1960.12.21, *prof.dr. F. Loonstra*
- 592 Koenraad Alexander Nater**, Irradiation damage in ion exchange materials, CHEM, 1961.01.25, *prof.dr. J.H. de Boer*
- 593 Eric George Kiel**, Metaalcomplexen van alizarinerood, CHEM, 1961.01.25, *prof.dr.ir. P.M. Heertjes*
- 594 Frederik Hendrik Kreuger**, Detection and location of discharges in particular in plastic-insulated high-voltage cables, ELEC, 1961.02.08, *prof.dr.ir. F.A. Heijn*
- 595 Cornelis Okkerse**, Submicroporous and macroporous silica, CHEM, 1961.02.22, *prof.dr. J.H. de Boer*
- 596 Willem Hubert Meijs**, Alumina coated silica, CHEM, 1961.03.29, *prof.dr. J.H. de Boer*
- 597 Klaas Sijbren de Vries**, Reacties van aliphatische halogeniden met oplossingen van alkalimetalen in vloeibare ammoniak, CHEM, 1961.03.29, cum laude, *prof.dr.ir. P.E. Verkaide*, *prof.dr.ir. B.M. Wepster*
- 598 Taco Jan Viersma**, Investigations into the accuracy of hydraulic servomotors, MECH, 1961.04.19, cum laude, *prof.ir. R.G. Boiten*
- 599 John William Reijn**, Differential-geometric considerations on the hodograph transformation for irrotational conical flow, MATH, 1961.04.19, cum laude, *prof.dr. R. Timman*
- 600 Bernardus Cornelis Lippens**, Structure and texture of aluminas, MATE, 1961.04.26, cum laude, *prof.dr. J.H. de Boer*, *prof.dr. W.G. Burgers*
- 601 Ralph Ellis Kleinman**, Integral representations of solutions of the Helmholtz equation with application to diffraction by a strip, MATH, 1961.04.26, cum laude, *prof.dr. R. Timman*
- 602 Jan Albert Geurst**, Linearized theory of two-dimensional cavity flows, MATH, 1961.05.03, cum laude, *prof.dr. R. Timman*

- 603 Kamal Riad**, Analytical and experimental study of bed load distribution at alluvial diversions, CIVI, 1961.06.14, *prof.dr. J.T. Thijsse*
- 604 Franciscus Adriaan Willem van den Burg**, An electrical transmission shaft and its stability founded on a general theory of electrical machines, ELEC, 1961.06.14, cum laude, *prof.dr.ir. J.P. Schouten*
- 605 Jan Paulus Benthem**, On the analysis of swept wing structures, AERO, 1961.06.21, *prof.dr.ir. A. van der Neut*
- 606 David Araten**, Potassium bicarbonate from potassium chloride and sodium bicarbonate from sodium chloride (by ion-exchange and water-transfer with alcohols), CHEM, 1961.06.21, *prof.dr.ir. J.C. Vlugter*
- 607 Christiaan Sybesma**, Measurements of continuous energy distributions of gamma rays in a scattering medium, PHYS, 1961.09.27, *prof.dr. J.J. Went*
- 608 Carel Jan Breukink**, Chemische en fysische aspecten van de inwerking van gasontladingen op vloeibare koolwaterstoffen, CHEM, 1961.09.27, *prof.dr.ir. J.C. Vlugter*
- 609 Parakat Govindankutty Menon**, Adsorption of nitrogen and carbon monoxide on alumina up to 3000 atmospheres pressure, CHEM, 1961.10.25, *prof.dr. J.H. de Boer, prof.dr. J.H. de Michels*
- 610 Jonas Alster**, Heavy-ion elastic scattering, PHYS, 1961.10.25, *prof.dr. A.H. Wapstra*
- 611 Klaas van Ipenburg**, Liquid-liquid extraction of metal salts by amine salts, CHEM, 1961.10.25, *prof.ir. J.E. de Graaf, prof.dr. P. Karsten*
- 612 Pieter Jan Bruijn**, On the theory of multicomponent distillation at minimum reflux, CHEM, 1961.11.22, cum laude, *prof.dr. W.R. van Wijk, prof.ir. H. Kramers*
- 613 Adriaan Kats**, Hydrogen in alpha-quartz, CHEM, 1961.11.22, *prof.dr. J.H. de Boer, prof.dr.ir. J.H. Stevels*
- 614 Petrus Hermanus van Lent**, De invloed van kwik op de omzetting van wit in grauw tin, MATE, 1962.01.17, cum laude, *prof.dr. W.G. Burgers*
- 615 Gerardus van Aller**, De invloed van een elastische spanning op de elektrische weerstand van koper na plastische deformatie, MATE, 1962.01.17, *prof.dr. M.J. Druyvesteyn*
- 616 Edmond Frits Emile Zeijdel**, Large deflection panel flutter, AERO, 1962.01.24, *prof.dr.ir. A. van der Neut*
- 617 Arie van den Beukel**, Ontwikkeling van warmte tijdens het herstel van enkele plastisch vervormde metalen, MATE, 1962.02.07, cum laude, *prof.dr. M.J. Druyvesteyn*
- 618 Gouw Tan Hok**, Aspects of the constitution of fatty oils and related esters, CHEM, 1962.02.28, cum laude, *prof.dr.ir. J.C. Vlugter*
- 619 Frederik Evert van Wely**, The correlation between stacking-faults and recrystallisation in impurity doped copper, MATE, 1962.02.28, *prof.dr. W.G. Burgers*
- 620 Bruce Barton Barrow**, Error probabilities for data transmission over fading radio paths, ELEC, 1962.03.21, cum laude, *prof.dr.ir. J.L. van Soest*

- 621 Klaas Roelof Westerterp**, Het specifieke grensvlak in geroerde gas-vloeistofreactoren, CHEM. 1962.03.28, *prof.ir. H. Kramers*
- 622 Erich Heinz Pieter Cordfunke**, Het systeem iridium-zuurstof, CHEM. 1962.03.28, *prof.dr. G. Meyer*
- 623 Gerrit Vossers**, Some applications of the slender body theory in ship hydrodynamics, MARI. 1962.04.04, cum laude, *prof.dr. R. Timman*
- 624 Jan Doelman**, De verwijdering van zwavel en stikstof uit minerale oliën door katalytisch hydrogeneren, CHEM. 1962.04.04, *prof.dr.ir. J.C. Vlughter*
- 625 Wim 't Hart**, Het systeem niobiumpentachloride-niobiumpentoxide, CHEM. 1962.05.16, cum laude, *prof.dr. G. Meyer*
- 626 Jacob van Elk**, Relaties van fysische grootheden van enkelvoudige stoffen, CHEM. 1962.05.30, *prof.dr.ir. J.C. Vlughter*, *prof.dr.ir. G.A.M. Diepen*
- 627 Albertus van Cleeff**, Gashydraten van stikstof en zuurstof, CHEM. 1962.05.30, cum laude, *prof.dr.ir. G.A.M. Diepen*
- 628 Pieter Job Kreijger**, The removal of neutron poisons, in particular ^{135}Xe and ^{135}I , from an aqueous homogeneous suspension reactor, PHYS. 1962.06.13, *prof.ir. H. Kramers*, *prof.dr. J.J. Went*
- 629 Willem Hendrik Warnsinck**, Rederij, schip en research. Een bijdrage tot de praktische kennis der exogene factoren, die de snelheid van een zeeschip beïnvloeden, alsmede enkele notities betreffende Nederlandse scheepvaartresearch, MARI. 1962.06.20, *prof.ir. J.W. Bonebakker*
- 630 Jacobus Johannes van Aartsen**, Het systeem: uranyl-nitraat-water-tributylfosfaat- tetrachloorkoolstof, CHEM. 1962.06.27, *muw.prof.dr.ir. A.E. Korvezee*
- 631 Adrianus Johannes Bogers**, Martensitische omzetting bij plastische deformatie van ijzer-nikkel éénkristallen, MATE. 1962.06.27, *prof.dr. W.G. Burgers*
- 632 Andries Twijnstra**, Kostprijsberekening in het aannemingsbedrijf, HASS. 1962.07.04, *prof.dr. H.C. van Straaten*
- 633 Hendrik Wouter van Tijen**, Method for calculation of cylinder liner temperatures in diesel engines, MECH. 1962.07.04, *prof.ir. A.H. de Klerck*
- 634 Edmund Stefan Idziak**, On the mechanism of the negative Pasteur effect in yeast, LIFE. 1962.10.17, *prof.dr. T.O. Wikén*
- 635 Joannes Augustinus Maria van Hest**, Evenwichtsmetingen in het systeem methaan-naftaleen tot tweeduizend atmosfeer, CHEM. 1962.10.17, *prof.dr.ir. G.A.M. Diepen*
- 636 Pieter Jacobus Zandbergen**, Investigations on the supersonic flow around bodies, MATH. 1962.10.24, cum laude, *prof.dr. E. van Spiegel*
- 637 Jan Folke Holtrop**, De mangaanafzettingen van het Guyanaschild, GEOS. 1962.10.24, cum laude, *prof.ir. H.J. de Wijs*, *prof. C. Schouten*
- 638 Wiero Jan Beek**, Stofoverdracht door beweeglijke grensvlakken, PHYS. 1962.11.21, cum laude, *prof.ir. H. Kramers*
- 639 Leendert van Wijngaarden**, Applications of the one-fluid and the two-fluid model in magnetohydrodynamics, PHYS. 1962.11.21, cum laude, *prof.dr. L.J.F. Broer*

- 640 Johannes Hendricus Witte**, Mixing shocks and their influence on the design of liquid-gas ejectors, MECH. 1962.12.21, *prof.dr. J.O. Hinze*
- 641 Auguste El-Karek**, Some electron optical devices, PHYS. 1962.12.21, *prof.dr.ir. J.B. Le Poole*
- 642 Geert Remmert Veldkamp**, Curvature theory in plane kinematics, MATH. 1963.02.06, cum laude, *prof.dr. O. Bottema*
- 643 Robbert Aldert Vroom**, Kinetic aspects of the viscose rayon spinning proces, CHEM. 1963.02.13, *prof.dr. D.W. van Krevelen*
- 644 Antonie Corstiani Scheepmaker**, Analyse van de waarnemingsresultaten verkregen op het geodetisch-astronomisch station op Curaçao tijdens het internationaal geofysich jaar 1957-1958 en een onderzoek van het astrolabium A. Danjon, GEOD. 1963.02.13, *prof. R. Roelofs*
- 645 Gerardus Henricus Kroes**, Degradatie van synthetische polyamiden, CHEM. 1963.03.13, *prof.dr. D.W. van Krevelen*
- 646 Adriaan Hendrik van den Veen**, A study of pyrochlore, CHEM. 1963.03.13, cum laude, *prof. C. Schouten, prof.ir. H.J. de Wijs*
- 647 Leo Grandia**, Het toestandsdiagram van loodmonoxyde, en dampspanningsmetingen in de binaire stelsels van deze verbinding met Al_2O_3 en SnO_2 , CHEM. 1963.06.12, *prof.dr. G. Meyer*
- 648 Wijnandus Johannes Wösten**, Cadmiumselenide, CHEM. 1963.06.12, *prof.dr.ir. G.A.M. Diepen*
- 649 Harmen Hein Dijstelbergen**, The dynamic behaviour of rotameters, PHYS. 1963.06.19, *prof.dr.ir. C.J.D.M. Verhagen*
- 650 Cornelis Jan Emiel Adrianus Bulder**, On respiratory deficiency in yeasts, LIFE. 1963.06.19, *prof.dr. T.O. Wiken*
- 651 Gerhardus Viljoen**, A contribution to the extensions of abelian groups, MATH. 1963.07.03, *prof.dr. F. Loonstra*
- 652 Gerrit Abraham**, Jet diffusion in stagnant ambient fluid, CIVI. 1963.07.03, *prof.ir. J.T. Thijse, prof.dr. E. van Spiegel*
- 653 Jaap van Willigen**, Omzetting van koolwaterstoffen in stadsgas, CHEM. 1963.07.04, *prof.dr. D.W. van Krevelen*
- 654 Willem Lems**, The change of Young's modulus after deformation at low temperature and its recovery, PHYS. 1963.07.05, *prof.dr. M.J. Druyvesteyn*
- 655 Joseph Zorn**, Methods of evaluating Fourier transforms with applications to control engineering, PHYS. 1963.07.05, *prof.dr.ir. C.J.D.M. Verhagen*
- 656 Herman Sookdew Adhin**, Whitehead en de wereld. Een mathematico-logische, natuur- en cultuurfilosofische inleiding, HASS. 1963.10.16, *prof.dr. C.H. van Os*
- 657 Dingeman Korf**, Bijdrage tot de kennis van de bereiding van chemicaliën uit suikers, CHEM. 1963.10.16, *prof.dr.ir. J.C. Vlughter*
- 658 Godefridus Dionisius Vogels**, On the microbial metabolism of allantoin, CHEM. 1963.10.23, cum laude, *prof.dr. T.O. Wiken*
- 659 Jhr. Johan Jacob Quarles van Ufford**, Zwavel en bitumen. Oriënterend onderzoek naar de mogelijkheden om zwavel of zwavelrijke materialen in bitumen te verwerken, CHEM. 1963.10.23, *prof.dr.ir. J.C. Vlughter*

- 660 Jan Louiſ Verſter**, On the use of gauzes in electron optics, *PHYS.* 1963.10.30, *prof.dr.ir. J.B. Le Poole, prof.dr. L.J.F. Broer*
- 661 Jakob de Swaan Arons**, Ontmenging in de gasfaſe, *CHEM.* 1963.11.20, cum laude, *prof.dr.ir. G.A.M. Diepen*
- 662 Cornelis Jan Baas**, De ſyntheſe van isopreen uit propen, *CHEM.* 1963.11.20, cum laude, *prof.dr.ir. J.C. Vlughter*
- 663 Gerhardus Jacobus Engelbrecht**, A fundamental ſtudy of the influence of aluminium on the white ruſting of galvanized ſteel, *MATE.* 1963.12.11, *prof.ir. P. Jongenburger*
- 664 Wilhelmus Jacobus van de Weert**, A ſtudy of ſome catalytic hydrogenation and isomerization reactions of unsaturated hydrocarbons, *CHEM.* 1963.12.11, *prof.dr.ir. J.C. Vlughter*
- 665 Coenraad Liebrecht Temminck Groll**, Middeleeuwſe ſtenen huizen te Utrecht en hun relatie met die van andere noordweſt-europese ſteden, *ARCH.* 1963.12.12, cum laude, *prof.dr. E.H. ter Kuile*
- 666 Rudolf Johannes Herman Voorhoeve**, De ſyntheſe van methylchloorsilanen ; proces en mechanisme, *CHEM.* 1964.01.16, cum laude, *prof.dr.ir. J.C. Vlughter*
- 667 Casper Johan George Sliker**, Thermal diffusion of asymmetric molecules, *CHEM.* 1964.01.16, *prof.dr. J. Kistemaker*
- 668 Everhardus Albertus Muyderman**, Spiral groove bearings, *MECH.* 1964.03.18, cum laude, *prof.ir. H. Blok*
- 669 Jan Cornelis van Dam**, A ſimple method for the calculation of ſtandard-graphs to be uſed in geo-electrical proſpecting, *GEOS.* 1964.03.18, *prof.dr. O. Koefoed*
- 670 Bernhard Stouthamer**, Bereiding van onverzadigde vetalcoholen door homogeen gekatalyſeerde hydrogenering van onverzadigde vetzuren, *CHEM.* 1964.04.08, cum laude, *prof.dr.ir. J.C. Vlughter*
- 671 Willem Jacobus van de Lindt**, Nuclear reactor calculations with the group diffusion equations on digital computers, *MATH.* 1964.04.22, *prof.dr. E. van Spiegel*
- 672 Hermanus Johannes Pasman**, Omzettingen van koolwaterſtoffen door middel van gasontladingen, *CHEM.* 1964.05.06, *prof.dr.ir. J.C. Vlughter*
- 673 Gerrit Hendrik Ligterink**, Het ſtereoscopiſche ruimtemodel, *GEOD.* 1964.05.27, *prof. R. Roelofs*
- 674 Nicolaas Hazewindus**, Experiments on nuclear levels in ³⁵Cl, *PHYS.* 1964.05.27, *prof.dr. A.H. Wapstra*
- 675 Frans Gustaaf van der Hoeven**, Interpretation of geo-electric reſiſtivity curves, *GEOS.* 1964.06.10, *prof.dr. O. Koefoed*
- 676 Richard Willem Rooda**, Isolering en ſtructuuropheldering van alkaloiden uit *Lunasia amara Blanco*, *CHEM.* 1964.06.17, *prof.dr.ir. P.E. Verkade*
- 677 Henk Iwan Dawson**, Production and recovery of point defects in Au, Ag and Cu, *MATE.* 1964.06.24, *prof.dr. M.J. Druyvesteyn*
- 678 Leendert Dekker**, Numerical aspects of the one-dimensional diffusion equation, *MATH.* 1964.06.24, cum laude, *prof.dr. E. van Spiegel*

- 679 Rudolf Hans Walter Sieh**, Het evenwicht vloeistof-damp in het stelsel benzeen-1,2-dichloorethaan, CHEM, 1964.07.01, *nuu.prof.dr.ir. A.E. Korvezee*
- 680 Marie Egidius Antonius Hermans**, The urea process for UO_2 production, CHEM, 1964.07.01, cum laude, *prof.dr. J.H. de Boer, prof.dr. J.J. Went*
- 681 Jacobus Schijve**, Analysis of the fatigue phenomenon in aluminium alloys, MATE, 1964.07.08, *prof.ir. P. Jongenburger*
- 682 Johan Joseph Breen**, De landbouwkundig en industriële betekenis van de aardpeer (*Helianthus tuberosus* L.), LIFE, 1964.07.08, *prof.dr.ir. J.C. Vlughter, prof.dr. P.A. Roelofsen*
- 683 Max Lorenz Booij**, On isothermal flow of viscous liquids through screw pumps, MECH, 1964.09.11, *prof.ir. J.O. Hinze*
- 684 Donald Rankine Wells**, On the time varying horizontal water velocity of single, multiple, and random gravity wave trains, PHYS, 1964.09.11, *prof.ir. L.J. Mostertman, prof.dr.ir. C.J.D.M. Verbagen*
- 685 Pieter van Bommel**, Application de la théorie des vibrations non-linéaires sur le problème du mouvement de lacet d'un véhicule de chemin de fer, MECH, 1964.09.30, *prof.dr.ir. A.D. de Pater*
- 686 Ralph Maynard Grant**, Photoelectrically induced free carrier modulation and amplification of light in semiconductors, PHYS, 1964.10.13, *prof.dr. H.G. van Bueren*
- 687 Robbert Anton Bosschart**, Analytical interpretation of fixed source electromagnetic prospecting data, GEOS, 1964.10.28, *prof.dr. O. Koefoed*
- 688 Arie Baelde**, Theory and experiments on the noise of transistors, PHYS, 1964.10.28, *prof.dr. D. Polder*
- 689 Otto Hermann Gerlach**, Analyse van een mogelijke methode voor het meten van prestaties en stabiliteits- en besturingseigenschappen van een vliegtuig in niet-stationaire symmetrische vluchten, AERO, 1964.11.04, cum laude, *prof.dr.ir. H.J. van der Maas*
- 690 Jacobus Christiaan Visser**, Schoonhoven, de ruimtelijke ontwikkeling van een kleine stad in het rivierengebied gedurende de Middeleeuwen, ARCH, 1964.12.02, cum laude, *prof.ir. J.H. Froger, prof.dr. E.H. ter Kuile*
- 691 Bastiaan Gerardus Linsen**, The texture of nickel-silica catalysts, CHEM, 1964.12.09, cum laude, *prof.dr. J.H. de Boer*
- 692 Antonie Reekers**, On the production of α -ketoglutaric acid by *Pseudonoma reptilivora* Caldwell et Ryerson, LIFE, 1964.12.09, *prof.dr. T.O. Wikén*
- 693 Hendrik Tennekkes**, Similarity laws for turbulent boundary layers with suction or injection, AERO, 1964.12.16, *prof.dr.ir. J.A. Sreketee*
- 694 Petrus Wilhelmus Marie Boin**, On the method of stationary phase for double integrals, MATH, 1965.02.10, *prof.dr. R. Timman*
- 695 Johannes Gerrit Lekkerkerker**, On the stress distribution in cylindrical shells weakened by a circular hole, MECH, 1965.02.10, cum laude, *prof.dr.ir. W.T. Koiter*
- 696 Francois Gerard Insinger**, A rotating plasma experiment, PHYS, 1965.03.17, *prof.dr. J. Kistemaker*

- 697 Reinder Wereldsma**, Dynamic behaviour of ship propellers, MARI, 1965.04.07, *prof.dr.ir. J.D. van Manen*
- 698 Willem Johan Diderik Steenaart**, The synthesis of coupled transmission-line networks realizing all-pass characteristics, ELEC, 1965.04.28, *prof.ir. B.D.H. Tellegen*
- 699 Pieter Bennema**, The rate of growth of crystals from slightly supersaturated solutions, MATE, 1965.05.20, *prof.dr. W.G. Burgers, prof.dr. H.G. van Bueren*
- 700 Coenraad Ferdinand Lerk**, Enkele aspecten van de ontijzering van grondwater, LIFE, 1965.05.20, cum laude, *prof.dr.ir. P.M. Heertjes*
- 701 Walter Hendrik Gustav Lewin**, Determinations of nuclear decay energies and conversion coefficients using coincidence techniques, PHYS, 1965.05.26, *prof.dr. A.H. Wapstra*
- 702 Jentje Posthuma**, Energieoverdracht van aangeslagen moleculen in waterige oplossing, CHEM, 1965.05.26, *prof.dr. W. Berends*
- 703 Willem Bakker**, De levertijd in machinefabrieken. Een oriënterend onderzoek, SCGE, 1965.06.02, cum laude, *prof.ir. R. van Hasselt*
- 704 Gielliam Jacobus Hauptfleisch**, Quasi-group extensions of abelian groups, MATH, 1965.06.16, cum laude, *prof.dr. F. Loonstra*
- 705 Sibren Geert Hovenkamp**, Reacties in het systeem zwavelkoolstofnatronloog, CHEM, 1965.06.16, cum laude, *prof.dr. D.W. van Krevelen*
- 706 Cornelis Arie Paul Bakker**, Grensvlakstroming en stofoverdracht tussen beweeglijke fasen, PHYS, 1965.07.07, *prof.ir. H. Kramers, prof.dr.ir. W.J. Beek*
- 707 Petrus Johannes Holewijn**, Contributions to the theory of asymptotic distribution modulo 1, MATH, 1965.07.07, cum laude, *prof.dr. L. Kuipers*
- 708 Alfred Johan Chömpff**, Linear viscoelasticity of entanglement networks, CHEM, 1965.09.15, *prof.dr. W. Prins*
- 709 Laurentius Hendricus Jozef Wachters**, De warmteoverdracht van een hete wand naar druppels in de sferoidale toestand, PHYS, 1965.10.06, *prof.ir. H. Kramers*
- 710 Karel Johan Anton de Waal**, Stroming, menging en stofoverdracht in één gepakte kolom, PHYS, 1965.10.07, *prof.ir. H. Kramers, prof.dr.ir. W.J. Beek*
- 711 Tom Doorgeest**, Het dispergeren van pigmenten in alkydharsoplossingen, CHEM, 1965.10.13, *prof.dr.ir. P.M. Heertjes*
- 712 Jan Leendert van Ingen**, Theoretical and experimental investigations of incompressible laminar boundary layers with and without suction, AERO, 1965.10.13, cum laude, *prof.dr.ir. J.A. Steketee, prof.dr.ir. H.J. van der Maas*
- 713 Nicolaas Willem Frederik Kossen**, Het bevochtigen van poeders, CHEM, 1965.10.21, *prof.dr.ir. P.M. Heertjes*
- 714 Hans Colthof**, Veranderen en aanpassen in de organisatie van het bedrijf, ADMI, 1965.10.27, *prof.dr. H.J. Kruisinga*
- 715 Jan Roos**, Over inhomogene plastische vervorming. Proeven aan metaalfolies, MATE, 1965.11.10, *prof.dr. M.J. Druyvesteyn, prof.ir. P. Jongenburger*

- 716 Johan Nijman**, De berekening van industriële kogelmolens, CHEM, 1965.11.17, *prof.dr.ir. P.M. Heertjes*
- 717 John Samuel Sussenbach**, Een onderzoek over de fotosensibilisatie van nucleïnezuren, CHEM, 1965.11.17, cum laude, *prof.dr. W. Berends*
- 718 Dirk Dijkstra**, Synthese en configuratiebepaling van enkele deoxy-inosadiaminen, CHEM, 1965.12.02, *prof.dr. W. Berends*
- 719 Frans Schurer**, On linear positive operators in approximation theory, MATH, 1965.12.02, cum laude, *prof.dr. P.C. Sikkema*
- 720 Abram Opschoor**, Conformational analysis of polyethylene and isotactic polypropylene, CHEM, 1965.12.08, cum laude, *prof.dr. W. Prins*
- 721 Yeb Marten de Haan**, Kristalbouw en roosterenergie van laagstructuren van het type cadmiumhydroxyde, PHYS, 1965.12.08, *prof.dr.ir. P.M. de Wolff*
- 722 Gerbrand Scherpbier**, De invloed van het krimpen en kruipen van het beton op samengestelde constructies, CIVIL, 1965.12.10, *prof.dr.ir. A.M. Haas*
- 723 Willem Joosen**, Oscillating slender ships at forward speed, MATH, 1965.12.17, cum laude, *prof.dr. R. Timman*
- 724 Johannes Diets de Veer**, Some optical devices for testing alignment and flatness, PHYS, 1966.01.12, cum laude, *prof.dr. A.C.S. van Heel*
- 725 Hans Robert Kleijn**, On the determination of microscopic reactor parameters using an exponential assembly, PHYS, 1966.01.12, cum laude, *prof.dr. J.J. Went*
- 726 Arie Heimans**, Bebouwingsdichtheid en grondgebruik voor de woningbouw in stadsuitbreidingen, ARCH, 1966.02.16, *prof.dr.ir. H.G. van Beusekom*
- 727 Paul Penning**, Theory of X-ray diffraction in unstrained and lightly strained perfect crystals, PHYS, 1966.02.16, cum laude, *prof.dr. D. Polder*
- 728 Robert Mathieu Voncken**, Circulatiestroming en menging in geroerde vaten, CHEM, 1966.02.25, *prof.ir. H. Kramers*, *prof.dr.ir. W.J. Beek*
- 729 Nicolaas van Klaveren**, De technische omzetting van furfural met loog, CHEM, 1966.03.09, *prof.dr.ir. P.M. Heertjes*
- 730 Cornelis Julianus Adrianus Roelands**, Correlational aspects of the viscosity-temperature-pressure relationship of lubricating oils, CHEM, 1966.04.27, cum laude, *prof.dr.ir. J.C. Vlугter*, *prof.ir. H. Blok*
- 731 Klaus Max Karl Muttzall**, High-pressure hydrogenation of fatty acid esters to fatty alcohols, CHEM, 1966.05.18, *prof.dr. P.J. van den Berg*
- 732 Matthijs de Vries**, Applications of luminophores in sandtransport-studies, CIVIL, 1966.05.25, *prof.ir. J.O. Hinze*, *prof.dr. E. van Spiegel*
- 733 Gerard Fokke Louis Leistra**, De doelmatigheid van de toepassing van een koelmachine voor de inlaatluchtcooling van viertact dieselmotoren met drukvulling, MECH, 1966.07.06, *prof.ir. A.H. de Klerck*
- 734 Fokke Dijkstra**, Studies aan experimentele reactoren met vast en gefluidiseerd katalysatorbed, CHEM, 1966.10.05, *prof.dr.ir. J.C. Vlугter*

- 735 Johannes Boon;** Kristallisatiekinetiek van isotactisch polystyreen. Sferulietgroei en invloed van thermische voorgeschiedenis op het aantal sferulieten, CHEM, 1966.10.26, *prof.dr. D.W. van Krevelen, prof.dr. G. Challa*
- 736 Hans Bastiaan Pacejka,** The wheel shimmy phenomenon. A theoretical and experimental investigation with particular reference to the non-linear problem, MECH, 1966.12.14, cum laude, *prof.dr.ir. A.D. de Pater, prof.ir. H.C.A. van Eldik Thieme*
- 737 Mahmoed Ibrahim Allam,** Catalytic aromatization and dealkylation of bicyclic hydrocarbons present in kerosene fractions, CHEM, 1967.02.23, *prof.dr.ir. J.C. Vlugter*
- 738 Hans van Krugten,** The construction of and measurements with a beta-ray spectrometer for electron-gamma correlations, PHYS, 1967.03.02, *prof.dr. A.H. Wapstra*
- 739 Willem Lourens,** A double focusing beta-ray spectrometer applied in heavy element studies, PHYS, 1967.03.02, *prof.dr. A.H. Wapstra*
- 740 Frits Jan Kievits,** Precipitatie in aluminium-magnesium legeringen en de invloed van zilver en cadmium, MATE, 1967.03.15, *prof.dr. A.J. Zuijthoff*
- 741 Soen Hien Tan,** Conductometric situations in the presence of indifferent electrolytes using bright platinum electrodes, CHEM, 1967.04.05, *prof.dr. P. Karsten*
- 742 Hubert Hermans,** Krachten en vervormingen bij het dieptrekken, MECH, 1967.04.26, *prof.ir. A.J. Pekelharing, prof.dr.ir. J.F. Besseling*
- 743 Manfred Janes,** Untersuchungen an einer Kälte-Diffusionspumpe, PHYS, 1967.05.03, *prof.dr.ir. J.B. Le Poole, prof.dr. J.A. Prins*
- 744 Julianus Leonardus Arnoldus Jansen,** A comparative study of some polyamides, CHEM, 1967.05.03, *prof.dr. D.W. van Krevelen*
- 745 Jacobus Cornelis Oostdijk,** Van kiem tot kristalliet. Een bijdrage tot de kennis van de wetmatigheden, die het stolproces van een metaal beheersen, MATE, 1967.05.17, *prof.dr. A.J. Zuijthoff*
- 746 Walter Ferdinand Nathalie Maria de Vleesschauwer,** Active magnesia, CHEM, 1967.05.17, cum laude, *prof.dr. J.H. de Boer*
- 747 Alex de Bruijn,** Calculation of the edge effect of sound-absorbing structures, PHYS, 1967.06.07, *prof.dr.ir. A.T. de Hoop, prof.dr.ir. C.W. Kosten*
- 748 Foppe Hilbertus Fockens,** Fysische transportverschijnselen tijdens het afkoelen van tuinbouwprodukten, MECH, 1967.06.07, *prof.dr.ir. L. Váhl*
- 749 Jan Scholtens Folkers,** A computer system of time-table conditions, MATH, 1967.06.14, cum laude, *prof.dr. M. Eutwe, prof.dr. H.J.A. Duparc*
- 750 Theodorus Hermanus Maria Smits,** Skew polynomial rings and nilpotent derivations, MATH, 1967.06.21, cum laude, *prof.dr. H.J.A. Duparc*
- 751 Aart Lambert van der Mooren,** Homogeniseren van stortgoederen in het bijzonder steenkool, MATH, 1967.06.21, *prof.ir. J.W. Sieben, prof.ir. T.R. Seldenrath*
- 752 Douglas Burnham Holmes,** Experimental studies on laminar flows in ducts, PHYS, 1967.06.28, *prof.dr.ir. W.J. Beek*

- 753 Hans van der Haas**, The enterprise in transition. An analysis of European and American practice, ADMI, 1967.06.28, cum laude, *prof.dr. W.J. van de Woestijne*
- 754 Jan Jacob Leendertse**, Aspects of a computational model for long-period water-wave propagation, MATH, 1967.06.29, cum laude, *prof.dr. E. van Spiegel*
- 755 Joost Jacques Kalker**, On the rolling contact of two elastic bodies in the presence of dry friction, MATH, 1967.07.05, cum laude, *prof.dr.ir. A.D. de Pater*
- 756 Mostafa Sayed Abd-El-Rahman Afifi**, Scattered radiation from microwave antennas and the design of a paraboloid-plane reflector antenna, ELEC, 1967.07.06, *prof.dr.ir. J.P. Schouten*
- 757 Bernardus Hendrikus Bibo**, Isomerization and dehydrogenation of some autocondensation products of cyclohexanone, CHEM, 1967.07.06, *prof.dr. D.W. van Krevelen, prof.dr.ir. B.M. Wepster*
- 758 Sijbrand Radelaar**, The kinetics of short-range order in some noble metal alloys, MATE, 1967.09.27, *prof.dr. M.J. Druyvesteyn*
- 759 Antonie Edelman**, Design and operation of an ozonator, CHEM, 1967.10.18, *prof.dr.ir. W.J. Beek*
- 760 Hendrik Klaas Kuiken**, Perturbation techniques in free convection, MATH, 1967.11.01, *prof.dr. R. Timman*
- 761 Hendrikus de Waal**, On the internal friction in ion-exchanged sodium silicate glasses and in sodium aluminoborate glasses, PHYS, 1967.11.01, *prof.dr. M.J. Druyvesteyn*
- 762 Elco Wiebe Bijker**, Some considerations about scales for coastal models with movable bed, CIVI, 1967.11.15, *prof.ir. H.J. Schoemaker*
- 763 Fokke Tuinstra**, Structural aspects of the allotropy of sulfur and the other divalent elements, PHYS, 1967.11.22, cum laude, *prof.dr. J.A. Prins*
- 764 Anthony Eidius Maria Keijzers**, Light scattering by crystalline polystyrene and polypropylene, CHEM, 1967.11.22, *prof.dr. W. Prins*
- 765 Willem Crans**, Een model ter berekening van de grondvergelijkingen der plasticiteitstheorie voor polykristallijn materiaal met gegeven kristallografische textuur, MATE, 1967.11.29, *prof.dr. M.J. Druyvesteyn, prof.ir. P. Jongenburger*
- 766 Eduard Johan van de Kraats**, On elasticity and swelling, CHEM, 1967.11.29, *prof.dr. W. Prins*
- 767 Hans Jan Frankena**, Scattering of electromagnetic waves by a class of waveguide discontinuities, ELEC, 1967.12.06, cum laude, *prof.dr.ir. A. T. de Hoop*
- 768 Hendrik Gerard Stassen**, Random lateral motions of railway vehicles. A theoretical and experimental investigation of the interaction between track and vehicle, MECH, 1967.12.06, cum laude, *prof.ir. R.G. Boiten, prof.dr.ir. A.D. de Pater*
- 769 Pieter Meijers**, Doubly-periodic stress distributions in perforated plates, MECH, 1967.12.20, *prof.dr.ir. W.T. Koiter*
- 770 Jacob van Dam**, Elasto-osmometry, CHEM, 1967.12.20, *prof.dr. W. Prins*

- 771 Leendert Adam de Graaf**, Cold-neutron scattering experiments on cyclic hydrocarbons with a rotating-crystal spectrometer, PHYS. 1968.01.17, *prof.dr. J.J. van Loef*
- 772 Reijer Blokland**, Elasticity and structure of polyurethane networks, CHEM. 1968.01.17, *prof.dr. W. Prins*
- 773 Jacobus Nicolaas Cornelis van Geel**, Recovery of pure plutonium by extraction with trilaurylamine and direct precipitation, CHEM. 1968.01.24, *prof.ir. J.P.W. Houtman*
- 774 Pleun van der Steen**, On differential operators of infinite order, MATH. 1968.02.14, cum laude, *prof.dr. P.C. Sikkema*
- 775 Hugo Priemus**, Wonen, creativiteit en aanpassing. Onderzoek naar voorwaarden voor optimale aanpassingsmogelijkheden in de woningbouw, ARCH. 1968.02.14, *prof.ir. H. Brouwer, prof.dr. A.D. de Groot*
- 776 Willem Visser**, The finite element method in deformation and heat conduction problems, MECH. 1968.03.20, *prof.dr. ir. J.F. Besseling*
- 777 Lie Ting Khoo**, Ferroceen, CHEM. 1968.03.20, *prof.dr.ir. P.M. Heertjes*
- 778 Jan Arie de Leeuw den Bouter**, Kristallisatie door eenzijdige warmteafvoer, CHEM. 1968.03.27, *prof.dr.ir. P.M. Heertjes*
- 779 Leo Antonius Marie Verbeek**, Semigroup extensions, MATH. 1968.04.24, cum laude, *prof.dr. F. Loonstra*
- 780 Thomas Reith**, Physical aspects of bubble dispersions in liquids, CHEM. 1968.04.24, *prof.dr.ir. W.J. Beek*
- 781 Wilhelmus van Vonno**, Measurement of the thickness and refractive index of evaporated dielectric films, PHYS. 1968.05.08, *prof.dr. H. de Lang*
- 782 Johan Eeuwe Vos**, Birefringence of hexagonal single crystals of helium-4 at various pressures, PHYS. 1968.05.29, cum laude, *prof.dr. B.S. Blaisse*
- 783 David Engel Knibbe**, Diffusion-controlled stress relaxation of swollen rubber-like networks, CHEM. 1968.06.12, *prof.dr. W. Prins*
- 784 Jacques David Richter**, High pressure hydrogenation of unsaturated fatty acids to unsaturated fatty alcohols, CHEM. 1968.06.19, *prof.dr. P.J. van den Berg*
- 785 Leopold Maria Caspers**, Comparison between measured and calculated stationary thermal neutron spectra in heterogeneous systems, PHYS. 1968.06.19, cum laude, *prof.dr. J.J. Went*
- 786 Abraham Vermeer**, Excitation of ion oscillations by beam-plasma interaction, PHYS. 1968.06.26, *prof.dr. J. Kistemaker*
- 787 Rudolf Johannes Jacobus Stamm'ler**, Fast methods for computing thermal-neutron group constants in single-pin lattice cells, PHYS. 1968.09.04, *prof.dr. J.J. Went*
- 788 Alfred Bram Bok**, A mirror electron microscope, PHYS. 1968.09.18, cum laude, *prof.dr.ir. J.B. Le Poole*
- 789 Vilas Avadhut Ogale**, On the application of the semi-closed thermosyphon system to gas-turbine blade cooling, MECH. 1968.09.25, *prof. R.W. Stuart Mitchell*

- 790 Theo van der Plas**, The surface chemistry of carbon. Studies on the use of carbon as an adsorbent in nuclear reactors of the aqueous suspension type, CHEM, 1968.10.02, *prof.dr. J.H. de Boer*
- 791 Dirk van Ormondt**, Magnetic resonance with $\text{La}_2(\text{Mg}, \text{Mn})_3(\text{NO}_3)_{12} \cdot 24 \text{H}_{20}$, PHYS, 1968.10.02, *prof.dr. B.S. Blaisse*
- 792 Sohan Lal Sarin**, Application of gaskinetics to some flow problems, PHYS, 1968.10.09, *prof.dr. R. Timman*
- 793 Adrianus Jurianus Hermans**, High-frequency scattering by a convex smooth object, MATH, 1968.10.09, cum laude, *prof.dr. R. Timman*
- 794 Cornelis Christiaan Veerman**, De afbeelding van plastisch vervormde metaaloppervlakken door middel van foto-elektronen, MATE, 1968.10.16, cum laude, *prof.ir. A.A. van Douwen, prof.ir. P. Jongenburger*
- 795 Franciscus Adrianus Bilsen**, On the interaction of a sound with its repetitions, PHYS, 1968.10.16, *prof.dr.ir. J.F. Schouten, prof.dr.ir. C.W. Kosten*
- 796 Johannes de Graauw**, Fundamentele aspecten van waterontzouting met gashydraten, CHEM, 1968.10.30, cum laude, *prof.ir. F.C.A.A. van Berkel, prof.dr.ir. H.A.C. Thijssen*
- 797 Leo Johan van der Pauw**, Fourpole properties of electroacoustic delay lines with conventional and unconventional transducers, PHYS, 1968.10.30, cum laude, *prof.dr. D. Polder*
- 798 Willem Joseph Visseren**, De invloed van de aard van het silica op de eigenschappen van silica-alumina-katalysatoren, CHEM, 1968.11.13, *prof.dr. J.H. de Boer*
- 799 Leonardus Johannes Maria Waaijers**, On the structure of lattice ordered groups, MATH, 1968.11.13, *prof.dr. F. Loonstra*
- 800 Cornelis de Wit**, Mathematical treatment of optimal ocean ship routing, MATH, 1968.11.20, *prof.dr. R. Timman*
- 801 Hendrik Willem Hoogstraten**, On non-linear dispersive water waves, MATH, 1968.12.11, cum laude, *prof.dr. R. Timman*
- 802 Benjamin Harry Kolster**, Onderzoek betreffende de structuur van Cu_3Si en de vorming van deze verbinding door diffusie, MATE, 1968.12.11, cum laude, *prof.dr. W.G. Burgers*
- 803 Leendert Maat**, Bereiding van furo- en pyranochino linealkaloiden uit γ -lactonen, CHEM, 1969.01.15, *prof.dr. H.C. Beyerman*
- 804 Alexander Karel Muntjewerf**, Laminar flow heat transfer in the thermal entrance region of flat and profiled ducts, PHYS, 1969.02.05, *prof.dr.ir. H.A. Leniger, prof.dr.ir. W.J. Beek*
- 805 Gerardus Wilhelmus Maria Lijmbach**, Bongkrekzuur, een toxine van *pseudomonas cocovenenans*, LIFE, 1969.02.05, *prof.dr. W. Berends*
- 806 Johannes Leonardus Cornelis van Geel**, Investigations into the self-ignition hazard of nitrate ester propellants, CHEM, 1969.02.12, *prof.dr.ir. C. Boelhouwer, prof.dr.ir. W.J. Beek*
- 807 Willem Hoekstra**, Gamma rays from ^{28}Al , $^{186,188}\text{Re}$, ^{232}Th and ^{233}Pa , following neutron capture, PHYS, 1969.02.19, *prof.dr. A.H. Wapstra*

- 808 Willem Antoon van Kampen**, Beam control in a proton synchrotron, PHYS. 1969.02.19, cum laude, *prof.dr.ir. F.A. Heyn*
- 809 Adolf Fritz Schwarz**, Negative resistors and negative conductors, ELEC. 1969.02.26, *prof.ir. B.D.H. Tellegen*
- 810 Jan Willem van Heuven**, Physische aspecten van turbulente vloeistof-vloeistof dispersies, PHYS. 1969.04.05, *prof.dr.ir. W.J. Beek*
- 811 Rudolf Carlo Reintjes**, Leder van gereconstrueerde kollageenvezels, CHEM. 1969.04.16, *prof.dr.ir. P.M. Heertjes*
- 812 Herman van de Vaart**, Parametric amplification of microwave magneto-elastic and magnetostatic waves in yttrium iron garnet, PHYS. 1969.04.23, cum laude, *prof.dr. D. Polder*
- 813 Frederik Willem Schapink**, Statistical thermodynamics of vacancies in binary alloys, MATE. 1969.05.21, *prof.dr. J.L. Meijering*
- 814 Rudolf Marcus Maria Jessurun**, Nikkel en kobalt uit ijzerlaterieten, CHEM. 1969.05.28, *prof.dr.ir. P.M. Heertjes*
- 815 Jacobus Christoffel Joosten**, Enige beschouwingen over het transformeren van binaire codetekens, PHYS. 1969.05.28, cum laude, *prof.dr.ir. C.J.D.M. Verhagen*
- 816 Johan Carel Peter Broekhoff**, Adsorption and capillarity, CHEM. 1969.06.04, cum laude, *prof.dr. J.H. de Boer*
- 817 Matthijs Johannes Marinus Bogaerts**, A self-reducing range-finder with an automatic registration system, GEOD. 1969.06.11, cum laude, *prof.ir. G.F. Wier*
- 818 Cornelis Johannes Nederveen**, Acoustical aspects of woodwind instruments, PHYS. 1969.06.18, *prof.dr.ir. C.W. Kosten*
- 819 Muharrem Elmas**, Fundamental aspects of fluidised bed coating, CHEM. 1969.06.25, *prof.dr.ir. W.J. Beek*
- 820 Paul Maria Antonie Broers**, Evenwichtsmetingen aan binaire systemen van enkele sulfaten van tweewaardige metalen met water tot in het kritische gebied, CHEM. 1969.06.25, *prof.dr.ir. G.A.M. Diepen*
- 821 Arnold Verruijt**, Stresses due to gravity in an elastic half-plane with notches or mounds, CIVI. 1969.07.01, cum laude, *prof.dr.ir. G. de Josselin de Jong*
- 822 Petrus Josephus Louisa Reijnen**, Equilibria, reactions and sintering in systems with iron oxide as one of the components, MATE. 1969.07.02, cum laude, *prof.dr. J.L. Meijering*
- 823 Wilhelmus Hendrikus de Jeu**, A nuclear magnetic resonance study of acetone in various solvents, PHYS. 1969.07.02, *prof.dr.ir. J. Smid*
- 824 Wouter Gerard van Aken**, Onderzoek aan een centraps hogedruk centrifugaalpomp, MECH. 1969.07.09, *prof.ir. E.J. de Jong, prof.ir. J.O. Hinze*
- 825 Arij Leendert Dekker**, The local pile oscillator as a device for measuring temperature dependence in epithermal neutron-absorption, PHYS. 1969.07.09, *prof.dr. J.J. Went*
- 826 Carel Arthur Jan Simons**, The application of eikonal functions in the practice of optical design, PHYS. 1969.08.27, *prof.dr. H. de Lang*

- 827 Cornelis Dirk Andriesse**, Neutron scattering study of the dynamics in dense argon gas, PHYS. 1969.09.17, *prof.dr. J.J. van Loef*
- 828 Johan Willem Haarman**, Een nauwkeurige methode voor het bepalen van de warmtegeleidingscoëfficiënt van gassen (de niet-stationaire draadmethode), PHYS. 1969.10.01, *prof.dr.in. J. Schenk, prof.dr.ir. W.J. Beek*
- 829 Peter Edgar Mijnarends**, Positron annihilation in metals, a contribution to the analysis of angular correlation measurements, with an application to copper, PHYS. 1969.10.08, cum laude, *prof.dr. J.J. van Loef, prof.dr. G. de Vries*
- 830 Joost Willem Rotte**, Momentum, heat and mass transfer to a moving continuous cylinder, PHYS. 1969.10.08, *prof.dr.ir. W.J. Beek*
- 831 Joannes Josephus Jacobus Bosch**, Anionische polymerisatie van monomeren die de groep $N-C=O$ bevatten, CHEM. 1969.10.15, *prof.dr. P.J. van den Berg*
- 832 Johannes Bertus van der Plaat**, Mutanten met veranderde DNA-samenstelling, een kritisch onderzoek, LIFE. 1969.10.15, cum laude, *prof.dr. W. Berends*
- 833 Johannes Gerhardus Pape**, Fundamental aspects of radial-face seals, MECH. 1969.10.22, *prof.ir. H. Blok, prof.ir. E.J. de Jong*
- 834 Bernardus Maria Spee**, Investigations on the transonic flow around aerofoils, AERO. 1969.10.22, *prof.dr.ir. J.A. Steketeer*
- 835 Henri Gerard Jean de Boer**, De stabiliteit van onbelicht lichtdrukpapier, CHEM. 1969.10.29, *prof.dr.in. P.M. Heerijes*
- 836 Arie van der Rijst**, Beschouwingen over de vestigingsplaats van de westeuropese staalindustrie, ADMI. 1969.10.30, *prof.dr. W.J. van de Woestijne*
- 837 Nicolaas Henricus Dekkers**, Correction of spherical aberration, PHYS. 1969.11.05, cum laude, *prof.dr.ir. J.B. Le Poole*
- 838 Jan Medema**, Isomerisatie van N-buteen over bestraald $\gamma-Al_2O_3$, CHEM. 1969.11.12, *prof.ir. J.P.W. Houtman, prof.dr. G.C.A. Schuit*
- 839 Johannes Gerardus Theresia van Aken**, Adsorption phenomena on carbon, CHEM. 1969.11.26, *prof.dr. J.H. de Boer*
- 840 Varendra Lal Arora**, A unified theory for linearized shock-on-shock interaction problems, AERO. 1969.12.03, *prof.dr.in. J.A. Steketeer*
- 841 Constant Pierre Marie Sadée**, Klimaatbeheersing in de steenkolenmijnbouw, GEOS. 1969.12.03, *prof.dr.ir. L. Váhl, prof.dr. W. Maas*
- 842 Alexander van den Honert**, Pressurizer dynamics. Response to load transients, ENER. 1969.12.10, *prof.ir. D.G.H. Latzko, prof.dr.ir. W.J. Beek*
- 843 David Nicolaas Reinhoudt**, Over de synthese van cephalosporine C, CHEM. 1969.12.10, cum laude, *prof.dr. H.C. Beyerman*
- 844 Jacobus Marinus Valstar**, A study of the fixed bed reactor with application to the synthesis of vinyl acetate, CHEM. 1969.12.16, *prof.dr. P.J. van den Berg, prof.dr.ir. W.J. Beek*
- 845 Menno Tienstra**, A method for the calculation of orthogonal transformation matrices and its application to photogrammetry and other disciplines, GEOD. 1969.12.16, *prof.dr. O. Bottema*

- 846 Adrianus Korpel**, Optical imaging of ultrasonic fields by acoustic bragg diffraction, *PHYS.* 1969.12.17, cum laude, *prof.dr.ir. J.P. Schouten*
- 847 Johannes Hendrikus Gouda**, Structural characterization of non-crystalline hydrogels, *CHEM.* 1969.12.18, *prof.dr. H.R.K.N. Janeschitz-Kriegl*
- 848 Wilhelmus Werner**, Imaging properties of diffraction gratings, *PHYS.* 1970.01.07, cum laude, *prof.dr. H. de Lang*
- 849 Johannes Baptist Maria Nuyten**, Invloed van enige sporenelementen op afschrikstructuur en precipitatiegedrag van een Al-4 gew.% Cu-legering, *MATE.* 1970.01.14, *prof.dr. W.G. Burgers*
- 850 Leendert Hendrik de Nie**, Druppels, vorming en stofoverdracht, *CHEM.* 1970.01.14, cum laude, *prof.dr.ir. P.M. Heertjes*
- 851 Adrianus Paulus Meijers**, Onderzoek naar organische stoffen in rivierwater en drinkwater, *LIFE.* 1970.01.21, *prof.dr.ir. P.M. Heertjes*
- 852 August Maria Trommelen**, Physical aspects of scraped-surface heat exchangers, *PHYS.* 1970.02.04, *prof.dr.ir. W.J. Beek*, *prof.dr.ir. N.W.F. Kossen*
- 853 Augustinus Johannes Berkhout**, Minimum phase in sampled-signal theory, *PHYS.* 1970.02.04, *prof.ir. B.P.Th. Veltman*
- 854 Eduard Stammers**, Lokale warmte-overdrachtscoëfficiënten in geroerde vaten, *PHYS.* 1970.02.11, *prof.dr.ir. W.J. Beek*
- 855 Pieter Groenveld**, Dip-coating by withdrawal of liquid films, *PHYS.* 1970.02.18, *prof.dr.ir. W.J. Beek*
- 856 Edzard William Koopman**, Angular correlation studies of conversion electrons from ^{154}Gd , of nuclear electrons from ^{48}V and of bremsstrahlung from unpolarized electrons, *PHYS.* 1970.03.04, *prof.dr. A.H. Wapstra*
- 857 Jeroen Joannes Maria de Goeij**, Activeringsanalyse van zuurstof met behulp van tritonen, *CHEM.* 1970.03.04, *prof.ir. J.P.W. Houtman*
- 858 Jacob Wilhelm Martin Baars**, Dual-beam parabolic antennae in radio astronomy; theory and application of a method to decrease tropospheric influence on centimetre and millimetre wavelength observations, *PHYS.* 1970.03.18, *prof.dr. R. Kronig*
- 859 Tom Muller**, Plastisch gedrag van ijzer en nikkel bij hoge deformatiesnelheden, *MATE.* 1970.04.15, *prof.ir. P. Jongenburger*
- 860 Fredrick Johannes Ary den Broeder**, Onderzoek naar diffusie in het systeem chroom-wolfram, *MATE.* 1970.04.15, *prof.dr. W.G. Burgers*
- 861 Theodorus Jacobus Nieuwstad**, De hydrogenering van alkylnaftalenen over palladium, *CHEM.* 1970.04.22, *prof.dr.ir. B.M. Wépster*
- 862 Deva Prasad Ghosh**, The application of linear filter theory to the direct interpretation of geo-electrical resistivity measurements, *GEOS.* 1970.04.22, *prof.dr. O. Koefoed*
- 863 Johannes Maria Antonius Baas**, Bereiding, konformatie en nitratie van alkybenzenen, *CHEM.* 1970.04.29, *prof.dr.ir. B.M. Wépster*

- 864 Johan Elisa Mooij**, Far infra-red lattice resonance of alkali halides at high temperatures, PHYS. 1970.05.13, *prof.dr.ir. Ing. J.B. Westerdijk*
- 865 Hans Blok**, Diffraction theory of open resonators, ELEC. 1970.05.13, *prof.dr.ir. A.T. de Hoop*
- 866 Joseph Anton Kloostermann**, Oppervlakte martensiet en hoekprofiel martensiet in ijzer-nikkel, MATE. 1970.05.20, *prof.dr. W.G. Burgers*
- 867 Johannes Raynaldus Vermeulen**, Het smelten van polymeerkorrels aan hete oppervlakken, PHYS. 1970.06.03, *prof.dr.ir. W.J. Beek*
- 868 Gerard Harm Huizinga**, Maslow's need hierarchy in the work situation, HASS. 1970.06.10, *prof.mr.drs. M.H.K. van der Graaf*
- 869 Abraham Adriaan de Keijzer**, A comparison between precipitation phenomena in bulk and evaporated gold-nickel alloys, MATE. 1970.06.17, *prof.dr. W.G. Burgers*
- 870 Wilhelmus Antonius Schultze**, Homo-epitactische kristalgroei bij elektrokrystallisatie van koper, MATE. 1970.06.24, *prof.dr. W.G. Burgers*
- 871 Frederik Alexander Bottemanne**, Warmteoverdracht en verdamping door vrije convectie langs een verticale cylinder, PHYS. 1970.06.24, *prof.dr.ir. J. Schenk*
- 872 Marinus Willem Cornelis Oosterveld**, Wake adapted ducted propellers, MARI. 1970.06.25, *prof.dr.ir. J.D. van Manen*
- 873 Johan Karel Zuidweg**, Automatic guidance of ships as a control problem, MARI. 1970.06.25, *prof.ir. R.G. Boiten, prof.ir. J. Gerritsma*
- 874 Gilles Gerardus Hirs**, Fundamentals of a bulk-flow theory for turbulent lubricant films, MECH. 1970.07.01, *prof.ir. H. Blok*
- 875 Velibor Vidakovic**, Kenmerken van de stedelijke verkeersstructuur; exploratie van aanvullende vraagstellingen bij het verkeersonderzoek als bijdrage tot een interdisciplinaire benadering van het verplaatsingsgebeuren, CIVI. 1970.07.01, *prof.ir. J. Volmuller*
- 876 René Reijnhart**, Classical calculations concerning the double refraction, optical rotation and absolute configuration of Te, Se, Cinnabar (HgS), α - and β -Quartz, β -Cristobalite, NaNO_2 , NaClO_3 and NaBrO_3 , PHYS. 1970.07.07, *prof.dr. J.A. Prins*
- 877 Joost de Jong**, De onthechting van niet gepigmenteerde harsfilms, CHEM. 1970.07.08, *prof.dr.ir. P.M. Heertjes*
- 878 Petrus Johannes Maria Thomeer**, Analysis of electromagnetic prospecting data by means of apparent wave numbers, GEOS. 1970.07.09, *prof.drs. O. Koefoed*
- 879 Albert Reinder Bakker**, An experimental integrated system for application of a computer in shipbuilding industry, MATH. 1970.09.30, *prof.dr. E. van Spiegel*
- 880 Barte de Jong**, Some aspects of ship motions in irregular beam and longitudinal waves, MARI. 1970.10.07, *prof.dr. R. Timman, prof.ir. J. Gerritsma*
- 881 Jan Hendrik Vugts**, The hydrodynamic forces and ship motions in waves, MARI. 1970.10.14, *prof.ir. J. Gerritsma*
- 882 Marius Johannes Schoeman**, The group of neat extensions, MATH. 1970.10.15, *prof.dr. F. Loonstra*

- 883 Leonardus Joseph Maria Nelissen**, Twee-assig onderzoek van grindbeton, CIVI, 1970.10.21, *prof.dr.ir. A.M. Haas*
- 884 John Donald Buissink**, De analyse van regionale verschillen in de huwelijksvruchtbaarheid; een methodologisch-historische verkenning, HASS, 1970.10.21, *prof.ir. L.H.J. Angenot*
- 885 Adrianus Pieter Bolle**, Design and calculation methods in line transmission, ELEC, 1970.11.18, *prof.dr.ir. J.L. Bordewijk*
- 886 Benjamin de la Rosa**, Ideals and radicals, MATH, 1970.11.25, *prof.dr. F. Loonstra*
- 887 John Gramberg**, Klastische en kataklastische processen en hun betekenis voor de gesteentemechanica. (Inleiding tot een breukmechanica voor gesteente), GEOS, 1970.11.25, *prof.ir. T.R. Seldemath*
- 888 Cornelis Boudewijn Vreugdenhil**, Computation of gravity currents in estuaries, MATH, 1970.12.02, *prof.ir. J.O. Hinze*, *prof.dr. E. van Spiegel*
- 889 Sipke Johannes van der Meer**, Dynamisch-mechanische eigenschappen en blijvende deformatie van garens, koorden en weefsels, PHYS, 1970.12.02, *prof.dr. D.W. van Krevelen*
- 890 Hendrik Hanne Kroes**, A study of phytochrome, its isolation, structure and photochemical transformations, CHEM, 1970.12.09, *prof.dr. E.C. Wassink*
- 891 Johannes Trudo Cornelis van Kemenade**, Ligand hyperfine interactions in oxyhalides pentavalent chromium molybdenum and tungsten, CHEM, 1970.12.09, *prof.dr.ir. L.L. van Reijen*
- 892 Jean Richard Huynen**, Phenomenological theory of radar targets, ELEC, 1970.12.16, *prof.dr.ir. J.P. Schouten*
- 893 Hendrikus Wilhelmus van den Meerendonk**, Een onderzoek over het multi produkt planningprobleem voor een enkele machine, INFO, 1971.01.06, *prof. H.J.M. Lombaers*, *prof.dr.ir. L. Kosten*
- 894 Derk van der Houwen**, Transmission of synchronous digital signals, ELEC, 1971.01.13, *prof.dr.ir. J.L. Bordewijk*
- 895 Aalt Dijkema**, Uniform distribution in GF {q,x} and GF [q,x], MATH, 1971.01.20, *prof.dr. B. Meulenbeld*, *prof.dr. H.G. Meijer*
- 896 Herman van Bekkum**, Studies on cyclohexane derivatives, CHEM, 1971.01.27, *prof.dr.ir. B.M. Wepster*
- 897 Antonie Graveland**, Verwijdering van mangaan uit grondwater, LIFE, 1971.02.03, *prof.dr.ir. P.M. Heertjes*
- 898 David Broek**, A study on ductile fracture, MATE, 1971.02.10, *prof.ir. P. Jongenburger*
- 899 Arie Cornelis Vliegenthart**, Considerations on difference approximations for flow problems, MATH, 1971.03.03, *prof.dr. E. van Spiegel*
- 900 Hendrik Theodorus Rijnten**, Zirconia, CHEM, 1971.03.04, *prof.dr. J.H. de Boer*
- 901 Nebojsa Gasparovic**, Some considerations on gas turbine cycles, MECH, 1971.03.10, *prof. R.W. Stuart Mitchell*
- 902 Willy Johan van Ooij**, Szilard-Chalmers reakties in de hexahalokomplexen van iridium, CHEM, 1971.03.17, *prof.ir. J.P.W. Houtman*

- 903 Cornelis Spaans**, The fundamentals of three-dimensional chip curl, chip breaking and chip control, MECH, 1971.03.24, *prof.dr. A.J. Pekelharing*
- 904 Henrik Simon Victor de Snoo**, On generalizations of Fourier and Laplace transforms, MATH, 1971.03.24, *prof.dr. B. Meulenbeld*
- 905 Erik Lieuwens**, Fermat pseudo primes, MATH, 1971.04.21, *prof.dr. H.J.A. Duparc*
- 906 Louwrens Aaldijk**, Monovariante gashydraatevenwichten in het stelsel xenon-water, CHEM, 1971.05.05, *prof.dr.ir. G.A.M. Diepen*
- 907 Piet Bernard Marie Roes**, The finite dam. A study of the time-dependent, stochastic behaviour of storage systems with additive input.", MATH, 1971.05.26, *prof.dr.ir. J.W. Cohen*
- 908 Jan den Draak**, De woonfunctie van het stadscentrum. Een sociologische facetstudie, HASS, 1971.05.26, *prof.dr. C.S. Kruijt*
- 909 Joseph Hubertus Alphonsus de Smit**, Many server queueing systems, MATH, 1971.06.02, *prof.dr.ir. J.W. Cohen*
- 910 Hendrikus Stephanus Rutten**, Asymptotic approximation in the three-dimensional theory of thin and thick elastic shells, MATH, 1971.06.16, *prof.dr. R. Timman*, *prof.ir. A.L. Bouma*
- 911 Hugo van Dam**, Experimental and theoretical analysis of fast neutron spectra, PHYS, 1971.06.23, *prof.dr. J.J. Went*
- 912 Willem Catrinus Witvoet**, Enige aspecten van het dispergeerproces, CHEM, 1971.06.24, *prof.dr.ir. P.M. Heertjes*
- 913 Peter Arnold Ruymgaart**, The Kalman-Bucy filter and its behaviour with respect to smooth perturbations of the involved Wiener-Lévy processes, MATH, 1971.06.30, *prof.dr. J.G. Dijkman*, *prof.dr. R. Timman*
- 914 Ronald de Beer**, Electron nuclear double resonance investigation of the manganese-proton superhyperfine interaction in $\text{La}_2(\text{Mg,Mn})_3(\text{NO}_3)_{12}$, H_2O , PHYS, 1971.06.30, *prof.dr. B.S. Blaisse*
- 915 Jacobs Meyer Goldschwartz**, Some measurements in liquid helium four, PHYS, 1971.07.07, *prof.dr. B.S. Blaisse*
- 916 Dan Yosef Perera**, Water transport in paint films, CHEM, 1971.09.08, *prof.dr.ir. P.M. Heertjes*
- 917 Pieter Barteld Kwant**, Non-isothermal laminar flow, PHYS, 1971.09.15, *prof.dr.ir. W.J. Beek*, *prof. M.Sc. J.M. Smith*
- 918 Gijsbert Ooms**, Fluid-mechanical studies on core-annular flow, MECH, 1971.09.22, *prof.ir. J.O. Hinze*
- 919 Carel Albert Prins**, Aspects of two-phase, gasliquid, separation related to nuclear steam supply systems, ENER, 1971.09.29, *prof.ir. D.G.H. Latzko*, *prof.ir. J.O. Hinze*
- 920 Arie Hasman**, Neutron quasi-elastic scattering studies on fluid argon, PHYS, 1971.09.29, *prof.dr. J.J. van Loef*
- 921 Jan Gerard Bannenberg**, Design and characteristics of a rotating plasma device, PHYS, 1971.10.06, *prof.dr. J. Kistemaker*
- 922 Martinus Johannes van Dalen**, Direct synthesis of silanes; chlorosilanes, methylchlorosilanes, ethylchlorosilanes, CHEM, 1971.10.13, *prof.dr. P.J. van den Berg*

- 923 Jan Maarten Kooijman**, Comparative performance of artificial kidneys, LIFE, 1971.10.20, *prof.dr.ir. N.W.F. Kossen*
- 924 Johan Grasman**, On the birth of boundary layers, MATH, 1971.10.20, *prof.dr.ir. W. Eckhaus*
- 925 Afzal Ahmad Khan Yousufzai**, Divisibility and purity in modules, MATH, 1971.10.27, *prof.dr. F. Loonstra*
- 926 Jan Verloop**, The origin of bubbles in fluidized systems, CHEM, 1971.10.28, *prof.dr.ir. P.M. Heertjes*
- 927 Johannes Nicolai**, De visuele invloed van woonplaatsen op open ruimten, met enkele toepassingen op het midden van West-Nederland, ARCH, 1971.11.03, *prof.ir. W.N. de Bruijn*
- 928 Jan Tomas Lindt**, Time dependent mass transfer from single bubbles, PHYS, 1971.11.04, *prof.dr.ir. W.J. Beek, prof. M.Sc. J.M. Smiib*
- 929 Petrus Maria van den Berg**, Rigorous diffraction theory of optical reflection and transmission gratings, ELEC, 1971.11.17, *prof.dr.ir. A.T. de Hoop*
- 930 Paulus Aloysius van Hemert**, Vaccine production as a unit process, LIFE, 1971.11.24, *prof.dr. T.O. Wiken*
- 931 Antonius Petrus Gerardus Kieboom**, Substituent effects in the hydrogenation on palladium, CHEM, 1971.11.24, *prof.dr.ir. H. van Bekkum*
- 932 Frans van Antwerpen**, Kinetics of crystallization phenomena of spherulites in poly (ethylene terephthalate), CHEM, 1971.12.01, *prof.dr. D.W. van Krevelen*
- 933 Anatol von Stubbendorff**, Rissfortpflanzung in gekerbten Stahlplatten unter Beanspruchungen im Zugschwellbereich, MATE, 1971.12.01, *prof.ir. P. Jongenburger*
- 934 Johannes David Remijnse**, Proton magnetic resonance studies of specifically deuterated cyclohexane compounds, CHEM, 1971.12.08, *prof.dr.ir. B.M. Wepster, prof.dr.ir. H. van Bekkum*
- 935 Antonius Johannes Janssen**, Calculation and measurement of thermal neutron spectra in non-uniform reactor lattices, PHYS, 1971.12.09, *prof.dr. J.J. Went*
- 936 Paul Etienne Queneau**, Cobalt and the nickeliferous limonites. A multidisciplinary study on the maximum utilization of ore, GEOS, 1971.12.16, *prof.ir. H.J. Roorda*
- 937 Johannes Anthony Juijn**, Crystallinity in atactic polyvinyl chloride, CHEM, 1972.01.05, *prof.ir. W.A. de Jong*
- 938 Matheus Theodorus Rekveldt**, Neutron depolarization study of ferromagnetic domain structures, PHYS, 1972.02.23, *prof.dr. J.J. van Loef*
- 939 Jan Pieter Hooft**, Hydrodynamic aspects of semi-submersible platforms, MARI, 1972.03.01, *prof.ir. J. Gerritsma, prof.dr. R. Timman*
- 940 Leendert Antonius Fontijn**, An electron exposure system for recording and printing, PHYS, 1972.03.27, *prof.dr.ir. J.B. Le Poole*
- 941 Arthur Ohm**, Broei- en droogprocessen in hooi, LIFE, 1972.04.19, *prof.dr.ir. N.W.F. Kossen*
- 942 Tom Goemans**, Mathematical modeling of pressurizer thermodynamics, ENER, 1972.04.20, *prof.ir. D.G.H. Latzko*

- 943 Willem Jacobus van den Hoek**, Electron spin resonance studies on dynamic processes in some phenoxy radicals, PHYS, 1972.04.26, *prof.dr.ir. J. Smidt*
- 944 Adrianus Michiel van der Kraan**, Mössbauer effect studies of superparamagnetic α -FeOOH and α -Fe₂O₃, PHYS, 1972.04.26, *prof.dr. J.J. van Loef*
- 945 Robert Hendrik van Dongen**, Physical adsorption on ionic solids, CHEM, 1972.05.03, *prof.dr.ir. L.L. van Reijen*
- 946 Dick Hans van Campen**, Some applications of engineering mechanics in pressure vessel analysis, ENER, 1972.05.03, *prof.ir. D.G.H. Latzko, prof.dr.ir. J.G. Lekkerkerker*
- 947 Adolf Wijler**, Het Portevin - Le Chatelier effect in goud-koper legeringen, MATE, 1972.05.30, *prof.dr.ir. P. Penning*
- 948 Simon Markus Carmio**, Het systeem Au-Ni-Pt, MATE, 1972.06.07, *prof.dr. J.L. Meijering*
- 949 Gottlieb Wilhelm Schröder van Rooijen**, Ideal subgroups of abelian groups, MATH, 1972.06.21, *prof.dr. F. Loonstra*
- 950 Hemmat Hussein Safwat**, Transients in cooling water systems of thermal power plants, ENER, 1972.06.27, *prof.ir. J.J.C. van Lier, prof.ir. J.O. Hinze*
- 951 Jacob IJff**, Analysis of dynamic aircraft landing loads, and a proposal for rational design landing load requirements, AERO, 1972.06.27, *prof.Dr.-Ing. J. Taub, prof.dr.ir. A. van der Neut*
- 952 Robert Anthony Wind**, The sensitivities of different types of continuous wave nuclear magnetic resonance spectrometers, PHYS, 1972.06.28, *prof.dr.ir. J. Smidt*
- 953 Dirk Pieter Roelofsen**, Molecular sieve zeolites-properties and applications in organic synthesis, CHEM, 1972.06.28, *prof.dr.ir. H. van Bekkum*
- 954 Durk Geerlof ten Wolde**, Transient behaviour of nuclear steam generators, ENER, 1972.07.05, *prof.ir. D.G.H. Latzko*
- 955 Thomas Slot**, Stress analysis of thick perforated plates, MECH, 1972.09.27, *prof.dr.ir. W.T. Koiter, prof.ir. D.G.H. Latzko*
- 956 Wilhelmus Hendrikus Arnoldus Hesselink**, Spin assignments in the transitional nuclei ²¹⁵Po, ²¹⁹Rn and ²²³Ra from alpha-gamma directional correlation measurements, PHYS, 1972.09.28, *prof.dr. A.H. Wapstra*
- 957 George Benjamin Barkay**, Behaviour of cast iron at high subcritical temperatures, MATE, 1972.10.04, *prof.dr. A.J. Zuijthoff*
- 958 Hendrik Nieswaag**, Stollingsverschijnselen in grijs gietijzer, een studie over het grafiet eutecticum, MATE, 1972.10.11, *prof.dr. A.J. Zuijthoff*
- 959 Rudolf Hamerslag**, Prognosemodel voor het personenvervoer in Nederland, CIVI, 1972.10.12, *prof.ir. J. Volmuller*
- 960 John Basters**, Pentacyanocobaltate (II), homogeneous catalysis and complex formation, CHEM, 1972.11.29, *prof.dr.ir. L.L. van Reijen, prof.dr.ir. H. van Bekkum*
- 961 Pieter Huybers**, See-through structuring; a method of construction for large span plastics roofs, ARCH, 1972.12.06, *prof.ir. J. Oosterhoff, prof.dr.ir. A.J. Wildschui*
- 962 Louis Bakker**, Leed-onderzoek naar reacties van het (111) oppervlak van tantaal, MATE, 1972.12.13, *prof.dr.ir. B. Okkerse*

- 963 Han Lemei**, Generalizations of the bilateral Laplace transform, MATH. 1972.12.20, *prof.dr. B.L.J. Braaksma*
- 964 Gatzte Lettinga**, Radioactivity and water supplies, LIFE. 1972.12.20, *prof.dr.ir. P.M. Heertjes, prof.ir. J.P.W. Houtman*
- 965 Hendrik Hendriks**, Vastre-fase peptidesynthesen; synthese van oxytocine, vasopressine en menselijk calcitonine met behulp van een machine, CHEM. 1973.01.31, *prof.dr. H.C. Beyerman*
- 966 Herman Karel Ostendorf**, An interpretation of the U.V. and E.S.R. spectra of some chlorocomplexes of tervalent titanium, CHEM. 1973.02.07, *prof.dr.ir. L.L. van Reijen*
- 967 Teunis van Herwijnen**, On the kinetics and mechanism of the co-shift conversion on a copper/zinc oxide catalyst, CHEM. 1973.02.07, *prof.ir. W.A. de Jong*
- 968 Piet Stroeven**, Some aspects of the micromechanics of concrete, CIVI. 1973.02.21, *prof.dr.ir. A.M. Haas*
- 969 Yacov Zahavi**, Synthesizing a transportation study by the "IN" procedure, SCGE. 1973.02.28, *prof.ir. L.H.J. Angenot*
- 970 René Coene**, Quasi homogeneous approximations for the calculation of wings with curved subsonic leading edges flying at supersonic speeds, AERO. 1973.03.28, *prof.dr. J.A. Steketee*
- 971 Henderikus Cornelus Kappelhof**, Electromagnetisch en vermoeiingsonderzoek aan gesloten ophaalkabels in mijnschachten, GEOS. 1973.04.11, *prof.ir. P.Th. Velzeboen, prof.ir. G.C. Meeuse*
- 972 Jan Antonius Cornelius Derksen**, QA4. A language for artificial intelligence, INFO. 1973.04.25, *prof.dr.ir. W.L. van der Poel*
- 973 Gerrit de Jong**, Generation of acoustic waves in piezo-electric devices, ELEC. 1973.05.02, *prof.dr.ir. A.T. de Hoop*
- 974 Johan Strating**, Fatigue and stochastic loadings, CIVI. 1973.05.09, *prof.ir. A.A. van Douwen, prof.ir. J. de Back*
- 975 Derk Jan Smeenk**, Rational motions of special spatial four-bars, MATH. 1973.05.09, *prof.dr. O. Bottema*
- 976 Errol Paul Karel Ottens**, Nucleation in continuous agitated crystallizers, CHEM. 1973.05.23, *prof.ir. E.J. de Jong, prof.dr.ir. H.A.C. Thijssen*
- 977 Albertus Gerhardus Dirks**, Oppervlakte- en fasegrensdiffusie in enkele op ijzer gebaseerde diffusiekoppels, MATE. 1973.05.30, *prof.dr. J.L. Meijering*
- 978 Jan Geert Besjes**, Singular perturbation problems for partial differential equations, MATH. 1973.06.06, *prof.dr.ir. W. Eckhaus*
- 979 Klaas Schaafsma**, Fotoreducties van aromatische azoverbindingen, CHEM. 1973.06.06, *prof.dr.ir. P.M. Heertjes*
- 980 Jan Pieter Theodorus Kalkwijk**, Hydrodynamic forces and ship motions induced by surges in a navigation lock, MARI. 1973.06.13, *prof.ir. W.C. Bischoff van Heemskerck*
- 981 Franciscus Antonius Kuijpers**, RCO₂-H and related systems, MATE. 1973.06.20, *prof.dr. J.L. Meijering*
- 982 Aaltje Hessels**, Vakantie en vakantiebesteding sinds de eeuwwisseling, SCGE. 1973.06.20, *prof.dr. C.S. Kruijt*

- 983 Engelbert Jan Matthijs Kobus**, Enkele aspecten van de vergiftiging van anionselectieve membranen, CHEM, 1973.06.27, *prof.dr.ir. P.M. Heerijes*
- 984 Rajni Kant Verma**, A feasibility study of electromagnetic depth sounding methods, GEOS, 1973.07.04, *prof.dr. O. Koefoed*
- 985 Guillermo Ricardo Marshall**, Computational methods in viscous flow problems, MATH, 1973.09.12, *prof.dr. E. van Spiegel*
- 986 Carel Wilhelm Eduard van Eijk**, Some applications of a curved-crystal spectrometer in nuclear physics, PHYS, 1973.09.26, *prof.dr. A.H. Wapstra*
- 987 Frits Frans Maria de Mul**, Molecular motions in cyclohexanol and related compounds studied by means of inelastic cold neutron scattering, PHYS, 1973.09.26, *prof.dr. J.J. van Loef*
- 988 Otto Dirk Leo Strack**, Many-valuedness encountered in groundwater flow, CIVI, 1973.10.18, *prof.dr.ir. G. de Josselin de Jong*, *prof.dr.ir. A. Verruijt*
- 989 Johan Blaauwendraad**, Systematische bouw met directe methoden en variatieprincipes van continue en discrete mechanica modellen, CIVI, 1973.10.31, *prof.ir. A.L. Bouma*
- 990 Tjeert ten Wolde**, Reciprocity experiments on the transmission of sound in ships, PHYS, 1973.11.21, *prof.ir. D.W. van Wulfsten Palthe*, *prof.dr.ir. R. Wereldsma*
- 991 Johannes Isidorus Roes**, Contact devices for high vacuum distillation, a comparative, experimental and explanatory study, CHEM, 1973.11.28, *prof.ir. E.J. de Jong*
- 992 Leonard Anthonie van Gunsteren**, A contribution to the solution of some specific ship propulsion problems, MAR, 1973.12.12, *prof.dr.ir. J.D. van Manen*
- 993 Albert Willem Gerritsen**, Disproportionering van propen over $\text{CoO}/\text{MoO}_3/\text{Al}_2\text{O}_3$, CHEM, 1973.12.19, *prof.ir. W.A. de Jong*
- 994 Carlo Beduz**, Some aspects of thermometry and heat transfer below 0.3K, PHYS, 1973.12.20, *prof.dr. B.S. Blaisse*, *prof.dr. G.J.C. Bots*
- 995 Cornelis Kranenburg**, Transient cavitation in pipelines, CIVI, 1974.02.13, *prof.dr.ir. J.P.Th. Kalkwijk*
- 996 Jacobus Wilhelmus Maria Noordermeer**, A flow birefringence study of polymer conformation, CHEM, 1974.02.20, *prof.dr. H.R.K.N. Janeschitz-Kriegl*
- 997 Dirk Jan Kraan**, The electronic band structure of vanadium oxide (VO), CHEM, 1974.02.27, *prof.dr.ir. L.L. van Reijen*
- 998 Caspar Schweigman**, Constrained minimization: handling of linear and nonlinear constraints, MATH, 1974.03.20, *prof.dr. R. Timman*
- 999 Rudy den Buurman**, De invloed van cyclische deformatie op de torsiemodulus en de inwendige demping van zuiver koper, MATE, 1974.04.24, *prof.dr.ir. P. Penning*
- 1000 David Weiner**, Elastic moduli and internal friction of cold worked copper single crystals, MATE, 1974.05.15, *prof.dr.ir. A. van den Beukel*
- 1001 Eduard van de Sande**, Air entrainment by plunging water jets, PHYS, 1974.05.15, *prof. M.Sc. J.M. Smith*

1002 Franciscus Cornelis Henricus Jongenelen, Kristallisatie bij convectief transport in de smelt, CHEM, 1974.05.22, *prof.dr.ir. P.M. Heertjes*

1003 Gerardus Cornelis Maria van Leeuwen, Investigation of magnetic interactions of nickel (II), cobalt (II), and manganese (II), in magnetically dilute systems, CHEM, 1974.05.29, *prof.dr.ir. L.L. van Reijen*

1004 Jurjen Anno Battjes, Computation of set-up longshore currents, run-up and overtopping due to wind-generated waves, CIVI, 1974.06.05, *prof.dr.ir. J.Ch. Schönfeld*

1005 Pieter van Oossanen, Calculation of performance and cavitation characteristics of propellers including effects of non-uniform flow and viscosity, MARI, 1974.06.12, *prof.dr.ir. J.D. van Manen*

1006 Henri Wolter Matheus van der Wijck, De Nederlandse buitenplaats; aspecten van ontwikkeling, bescherming en herstel, SCGE, 1974.06.20, *prof.dr.ir. C.L. Temminck Groll*

1007 Adriaan van den Bos, Estimation of parameters of linear systems using periodic test signals, PHYS, 1974.06.26, *prof.ir. B.P.Th. Velman*

1008 Antonius Albertus Maria Rutges, De verschieping van zure azokleurstoffen, CHEM, 1974.07.04, *prof.dr.ir. P.M. Heertjes*

1009 Willem de Boer, Dynamic orientation of nuclei at low temperatures. A study of the mechanisms of dynamic polarization in polarized targets, PHYS, 1974.07.09, *prof.dr. B.S. Blaise*

1010 Adriaan Herman Pieter van der Burgh, Studies in the asymptotic theory of nonlinear resonance, MATH, 1974.09.18, *prof.dr.ir. W. Eckhaus*

1011 Schelte Hylarides, Damping in propeller generated ship vibrations, MARI, 1974.10.16, *prof.dr.ir. R. Wereldsma*

1012 Hendrik Hoogendoorn, The effect of lactoperoxidase-thiocyanate hydrogen peroxide on the metabolism of cariogenic micro-organisms in vitro and in the oral cavity, LIFE, 1974.10.23, *prof.dr. K.G.G. König Meulen, prof.dr. W. Berends*

1013 Carolus Theodorus Sanders, Frost formation; the influence of frost formation and defrosting on the performance of air coolers, MECH, 1974.10.23, *prof.dr.ir. L. Våhl*

1014 Cornelis Korving, A three-dimensional method for the calculation of flow in turbomachines using finite elements on a blade-to-blade surface of revolution, MATH, 1974.10.30, *prof.dr. R. Timman*

1015 Pieter Dekker, Magnetization reversal processes in thin MnBi films, PHYS, 1974.11.13, *prof.dr.ir. S. Middelhoek*

1016 Pieter Diepenhorst, Removal of leukocytes from blood by filtration through cotton wool, LIFE, 1974.11.20, *prof.dr. W. Berends, prof.dr. J.J. van Loghem*

1017 Jan van der Veen, Production of single cell protein by cultivation of yeasts on fat and fat products, LIFE, 1974.11.20, *prof.dr. T.O. Wiken*

1018 Ram Kishore Singh Rathore, Approximation of unbounded functions with linear positive operators, MATH, 1974.11.27, *prof.dr. P.C. Sikkema*

1019 Arie van Zon, De synthese van secretine volgens de repetitieve overmaat gemengd anhydride methode, CHEM, 1974.11.27, *prof.dr. H.C. Beyerman*

- 1020 Rafael Fernandez Lague**, Erosion and transport of bed-load sediment, CIVI, 1974.12.11, *prof.dr. J.O. Hinze*
- 1021 Hans van Doesburg**, Transient behaviour of an adiabatic fixed-bed methanator, CHEM, 1974.12.18, *prof.dr. W.A. de Jong*
- 1022 Dirk Hermanus Swart**, Offshore sediment transport and equilibrium beach profiles, CIVI, 1974.12.18, *prof.dr.ir. E.W. Bijker*
- 1023 Hugo Anthonius van Oerle**, Leiden; een multidisciplinaire benadering van het proces der stadswording en de ontwikkeling van het oudste stadsgebied in de middeleeuwen, ARCH, 1974.12.19, *prof.dr.ir. J.C. Visser*
- 1024 Cornelis Roos**, Regularities of rings, MATH, 1975.01.22, *prof.dr. F. Loonstra*
- 1025 Gerardus Josephus Kok**, Disproportionering en estercondensatie van furfural, CHEM, 1975.02.19, *prof.dr.ir. P.M. Heertjes*
- 1026 Keshab Lal Ganguli**, Measurements of H_2 /edible oil interfacial area in an agitated hydrogenerator using a Ziegler-Natta catalyst, CHEM, 1975.02.26, *prof.dr.ir. N.W.F. Kossen*
- 1027 Theodoor van Holten**, The computation of aerodynamic loads on helicopter blades in forward flight, using the method of the acceleration potential, AERO, 1975.03.05, *prof.dr. R. Timman*
- 1028 Marcellinus Lambertus Jozef van den Berg**, Some investigations on the chemical nature of kerogen, CHEM, 1975.03.12, *prof.dr. P.A. Schenck*
- 1029 Jan van Dam**, Optimalisatie van reserve-eenheden pakketten, MATH, 1975.03.19, *prof.dr.ir. J.W. Cohen*
- 1030 Jaap van Brakel**, Capillary liquid transport in porous media, CHEM, 1975.04.10, *prof.dr.ir. P.M. Heertjes*
- 1031 Frans Jozef Maria Frankort**, Vibration and sound radiation of loudspeaker cones, PHYS, 1975.04.16, *prof.dr. D.W. van Wulfften Palthe*
- 1032 Johannes Floris Anthoni**, Multi-8, a real-time foreground/timesharing background operating system for a minicomputer, INFO, 1975.05.01, *prof.dr.ir. W.L. van der Poel*
- 1033 Johannes Leopold Marie Syrier**, Problemen bij de vaste-fase peptidesynthese. Synthese van substance P, CHEM, 1975.05.07, *prof.dr. H.C. Beyerman*
- 1034 Karel Diederick van der Mast**, A laser heated Schottky emission gun for electron microscopy, PHYS, 1975.05.07, *prof.dr.ir. J.B. Le Poole*
- 1035 Dick Gerrit Klaren**, Development of a vertical flash evaporator, ENER, 1975.05.21, *prof.dr. J.J.C. van Lieer, prof.ir. C.J. Hoogendoorn*
- 1036 Cornelis Theodorus Verrips**, Microbiological and biochemical aspects of the fermentation of milk with *saccharomycopsis lipolytica*, LIFE, 1975.05.27, *prof.dr. T.O. Wikén*
- 1037 Guido Marie August Coupé**, On the design of near-optimum control procedures with the aid of the Lyapunov stability theory, MATH, 1975.05.28, *prof.dr. R. Timman*
- 1038 Klaas van 't Riet**, Turbine agitator hydrodynamics and dispersion performance, PHYS, 1975.06.04, *prof. M.Sc. J.M. Smith*

1039 Hendrik van Brederode, Some diamines and polyamides containing cyclohexane rings, CHEM, 1975.06.04, *prof.dr. D.W. van Krevelen*

1040 Jake Johannes Bijlsma, On minimal-time ship routing, MATH, 1975.06.11, *prof.dr. R. Timman*

1041 Karel Jan Saurwalt, On the holding power of ship's anchors, MECH, 1975.06.12, *prof.dr. J.H. Krietemeijer*

1042 Brigel Johannes Ahlmann Vestmar, Design considerations for the grid type of communication network, ELEC, 1975.06.18, *prof.dr. J.L. de Kroes, prof.dr.ir. J.W. Cohen*

1043 Willem Mathieu Marie Joseph Bovée, Structure and motions of molecules in liquids as determined by selective proton relaxation time measurements, PHYS, 1975.06.25, *prof.dr.ir. J. Smid*

1044 Ramachandra Rao Guntur, Adaptive brake control systems, some considerations on design, development and evaluation of rear wheel brake control systems, MECH, 1975.06.25, *prof.dr. H.C.A. van Eldik Thieme*

1045 Pieter Bos, Some aspects of hydrocarbon assimilation by yeasts, LIFE, 1975.06.26, *prof.dr. T.O. Wiken*

1046 Pieter Lammert Zuideveld, Klaring van vloeistoffen met behulp van filterpoeders, CHEM, 1975.07.02, *prof.dr.ir. P.M. Heertjes*

1047 Saul Martin Lemkowitz, Phase and corrosion studies of the ammonia-carbon dioxide-water system at the conditions of the hot gas recirculation process for the synthesis of urea, CHEM, 1975.07.09, *prof.dr. P.J. van den Berg*

1048 Huibert Willem den Hartog, Stollingsverschijnselen in grote staalblokken. Een studie over de segregatie van de legeringselementen in staal, MATE, 1975.10.01, *prof.dr. A.J. Zuithoff*

1049 Peter Wilhelmus Renaud, The graphite ball detector. A new device for the measurement of the nuclear Doppler effect and integral neutron absorption cross-sections in intermediate and fast neutron spectra, PHYS, 1975.10.01, *prof.dr.ir. H. van Dam, prof.dr. J.J. Went*

1050 Rodolfo Martini, Differential operators degenerating at the boundary as infinitesimal generators of semi-groups, MATH, 1975.10.08, *prof.dr. P.C. Sikkema*

1051 Johan Friso den Hertog, Werkstructurering; ervaringen met alternatieve werkorganisaties binnen het Philips bedrijf, ADMI, 1975.10.22, *prof.mr.dr. M.H.K. van der Gnaaf*

1052 Jan Bootsma, Liquid-lubricated spiral-groove bearings, MECH, 1975.11.19, *prof.dr.ir. E.A. Muijderland*

1053 Tan Tik Hing, Diffraction theory for time-harmonic elastic waves, ELEC, 1975.11.26, *prof.dr.ir. A.T. de Hoop*

1054 Willemina Elisabeth de Boer, Ultrastructural changes in bacteria induced by the environment, LIFE, 1975.12.10, *prof.dr. T.O. Wiken*

1055 Steven Hendrikus van den Brink, Inhomogene deformatie in goud-koper legeringen, MATE, 1976.01.21, *prof.dr.ir. A. van den Beukel*

1056 Linus Enemmor Aneke, Kinetics of the vapour-phase catalytic disproportionation of toluene, CHEM, 1976.02.04, *prof.dr. P.J. van den Berg, prof.ir. W.A. de Jong*

1057 Jakob van Dijk, The formation and thermal decomposition of aluminium hydroxide doped with Fe (III) and Cr (III), CHEM, 1976.02.04, *prof.dr.ir. L.L. van Reijen*

1058 Herman Louis Jonkers, Application of the Kalman filter to flight path reconstruction from flight test data including estimation of instrumental bias error corrections, AERO, 1976.02.11, *prof.dr.ir. O.H. Gerlach*

1059 James Lance Sander Wales, The application of flow birefringence to rheological studies of polymer melts, CHEM, 1976.02.18, *prof.dr. H.R.K.N. Janschitz-Kriegl*

1060 Michael Loxham, The flow pattern in the exit pipe of a cyclone, CHEM, 1976.02.25, *prof.dr.ir. P.M. Heertjes*

1061 Klaus Alfred Georg Müller, On the feasibility of concurrent garbage collection, INFO, 1976.03.03, *prof.dr.ir. W.L. van der Poel*

1062 Mario Gustaaf Roger Tilly de Cooker, Kinetics and mechanism of the direct synthesis of organochlorosilanes, CHEM, 1976.03.17, *prof.dr. P.J. van den Berg*

1063 Bert Metz, From pulp to pellet, an engineering study on the morphology of moulds, LIFE, 1976.03.23, *prof.dr.ir. N.W.F. Kossen*

1064 Maarten Jan Vliegenthart, Het omzetten van teksten in Braille kortschrift met behulp van een rekenautomaat, INFO, 1976.03.24, *prof.dr.ir. W.L. van der Poel*

1065 Hendrik Cornelis Wagenaar, The influence of spectral line profiles upon analytical curves in atomic absorption spectrometry, CHEM, 1976.03.31, *prof.dr. L. de Galan*

1066 Theodorus Johannes Franciscus Buunen, On the preception of phase differences in acoustic signals, PHYS, 1976.04.07, *prof.dr. G. van den Brink, prof.dr.ir. F.A. Bilsen*

1067 Juri Cornelis Willem Berkhoff, Mathematical models for simple harmonic linear water waves, wave diffraction and refraction, MATH, 1976.04.07, *prof.dr. E. van Spiegel*

1068 Petrus Wilhelmus Heng Lee Tjan, Heterogeneous hydroformylation over an immobilised rhodium complex, CHEM, 1976.04.13, *prof.dr. J.J.F. Scholten*

1069 Bernard van den Berg, Investigations of three-dimensional incompressible turbulent boundary layers, AERO, 1976.04.28, *prof.dr.ir. J.L. van Ingen*

1070 Jacobus van Liere, Heterogeneous nucleation in magnesium-zinc alloys, MATE, 1976.05.04, *prof.dr.ir. B. Okkerse, prof.dr.ir. F.J. Kievits*

1071 Harmannus Hinderikus van Mal, Stability of ternary hydrides and some applications, PHYS, 1976.05.04, *prof.dr. J.L. Meijering, prof.dr. B.S. Blaise*

1072 Theo Gérard Spek, Hydroformylering met $\text{Rh}(\pi\text{-C}_3\text{H}_5)\text{CO}(\text{PPh}_3)_2$ op γ -alumina. Synthese, textuur en IR-onderzoek, CHEM, 1976.05.05, *prof.dr. J.J.F. Scholten*

1073 Eduard van den Pol, An estimation of the normal force and the pitching moment of "tear-drop" underwater-vehicles, MARI, 1976.05.19, *prof.ir. J. Gerritsma, prof.dr.ir. A.J. Hermans*

1074 Nicolás de Voogd, An algorithm for digital Wiener filters and its application to seismic wavelets in noise, GEOS, 1976.05.25, *prof.dr. O. Koefoed*

1075 Cornelis Cuvelier, Perturbation, approximation et controle optimal d'un système gouverné par les équations de Navier-Stokes couplées à celle de la chaleur, MATH, 1976.05.26, *prof.dr. E. van Spiegel*

1076 Peter Apontoweil, The role of glutathione in escherichia coli, LIFE, 1976.06.02, *prof.dr. W. Berends*

1077 Léon Peter Bernard Marie Janssen, A phenomenological study on twin screw extruders, PHYS, 1976.06.09, *prof. M.Sc. J.M. Smith*

1078 Johannes Leonardus Simons, Conditional recurring sequences, MATH, 1976.06.09, *prof.dr. H.J.A. Duparc*

1079 Gerard Sybren Jonker, The removal of radiostrontium by precipitation, CHEM, 1976.06.10, *prof.dr.ir. P.M. Heertjes*

1080 Tonny Storm, Design of a high-speed cylindrical grinding machines, MECH, 1976.06.10, *prof.ir. D.A.A. Koolen*

1081 Wilhelmus Veldhuyzen, Ship manoeuvring under human control. Analysis of the Helman's control behaviour, MARI, 1976.06.16, *prof.dr.ir. H.G. Stassen, prof.ir. J. Gerritsma*

1082 Gerardus van Ootmerssen, The motions of a moored ship in waves, MARI, 1976.06.16, *prof.ir. J. Gerritsma, prof.dr.ir. A.J. Hermans*

1083 Paul Albert Kolkman, Flow-induced gate vibrations; prevention of self-excitation, computation of dynamic gate behaviour and the use of models, CIVI, 1976.06.17, *prof.ir. H.J. Schoemaker, prof.ir. A.A. van Douwen*

1084 Loet Janssen, Warmteoverdracht en axiale dispersie bij laminaire stroming in schroefvormig gekromde buizen, PHYS, 1976.06.23, *prof.ir. C.J. Hoogendoorn*

1085 Frans Yje Dijkstra, Submerged cultures of mushroom mycelium as sources of protein and flavour compounds, LIFE, 1976.06.23, *prof.dr. T.O. Wikén*

1086 Henri Paul van Leeuwen, A quantitative analysis of hydrogen-induced cracking, MATE, 1976.06.24, *prof.dr.ir. P. Penning*

1087 George Adam Ferron, On the deposition of aerosols in the human airways, PHYS, 1976.06.24, *prof.dr. J.J. van Loef*

1088 Gerardus Joseph Timmermans, Epichloorhydrine door epoxydatie van allylchloride, CHEM, 1976.06.30, *prof.ir. W.A. de Jong*

1089 Petrus Matheus Theodorus Broersen, Evaluation of railway systems dynamics by model adjustment, MECH, 1976.06.30, *prof.dr.ir. A.D. de Pater, prof.ir. B.P.Th. Veltman*

1090 Jacob Verkerk, Wheelwear control in grinding. Models for the control of wheelwear, grinding force and surface roughness by the choice of dressing and grinding conditions, MECH, 1976.07.01, *prof.ir. A.J. Pekelbaring*

1091 Simon Touber, A contribution to the improvement of compressor valve design, MECH, 1976.07.01, *prof.dr.ir. L. Váhl*

1092 Kees van de Wiele, Oxidation of toluene and xylene over bismuth molybdate catalysts, CHEM, 1976.07.07, *prof.dr. P.J. van den Berg*

1093 Petrus Blok, Das hydrostatische Keilspaltlager. Berechnung und Anwendung bei Hydrozylindern, MECH, 1976.07.07, *prof.dr.ir. T.J. Viersma*

- 1094 Gerard Heijkoop**, Hydrazylnadicalen en hydrazoverbindingen, karakterisering en reacties, CHEM, 1976.09.28, *prof.dr.ir. H.C.A. van Beek*
- 1095 Arnoldus Maria Antonius van der Heijden**, On modified boundary conditions for the free edge of a shell, MECH, 1976.09.29, *prof.dr.ir. W.T. Koiter*
- 1096 Gerardus Hendrikus Niels**, Kookgedrag rond horizontale cilinders en in kettle-reboilers, MECH, 1976.10.06, *prof.ir. E.J. de Jong*
- 1097 Cornelis Bakker**, Properties of subscribers' lines and their influence on telephone transmission performance, ELEC, 1976.10.13, *prof.dr.ir. J.L. Bordewijk*
- 1098 Cornelis Johannes Maria van den Berg**, Digital filtering of scintigrams and an investigation into the application of the Fresnel zone plate in nuclear medicine, LIFE, 1976.11.17, *prof.dr. K.H. Ephraïm, prof.dr.ir. A.J. Hermans*
- 1099 Geert Hendrik Lameris**, The hydrate of CCl₄ and its phase equilibria with O₂ and N₂, CHEM, 1976.12.01, *prof.dr.ir. G.A.M. Diepen*
- 1100 Franciscus Hermannus Gortemaker**, A flow birefringence study of stresses in sheared polymer melts, CHEM, 1976.12.08, *prof.dr. H.R.K.N. Janeschitz-Kriegl*
- 1101 Louise Annette van der Meer-Lerk**, Onderzoek naar het mechanisme van blaargroei in vernissen, CHEM, 1976.12.15, *prof.dr.ir. P.M. Heertjes*
- 1102 Henricus Hubertus Ursinus Konijnendijk**, Short time behaviour of density correlation functions, PHYS, 1977.01.26, *prof.dr. J.M.J. van Leeuwen*
- 1103 Paulus Cornelis Maria Gubbens**, Magnetic properties of rare earth iron compounds, PHYS, 1977.02.16, *prof.dr. J.J. van Loef*
- 1104 Franciscus Corstiaan Arnold Groen**, Analysis of DNA based measurement methods applied to human chromosome classification, LIFE, 1977.02.23, *prof.dr.ir. C.J.D.M. Verhagen*
- 1105 Jan Willem Frederik Dorleijn**, Electrical conduction in ferromagnetic metals, PHYS, 1977.03.02, *prof.dr. J.J. van Loef*
- 1106 Henricus Antonius Clemens Maria Spaas**, Some contributions to the structural design and analysis of pressure vessel and piping components, ENER, 1977.03.09, *prof.ir. D.G.H. Latzko*
- 1107 Renée van Janssen van Rosmalen**, Crystal growth processes. The role of steps and of mass transfer in the fluid phase, PHYS, 1977.03.16, *prof.dr. P. Bennema, prof. M.Sc. J.M. Smits*
- 1108 Teunis Martien Klapwijk**, Superconducting microbridges and radiation stimulated superconductivity, PHYS, 1977.03.16, *prof.Dipl.-Ing. J.B. Westerdijk*
- 1109 Hans Hermanus Tuithof**, Simultaneous ion detection in a mass spectrometer with variable mass dispersion, PHYS, 1977.03.23, *prof.dr. J. Kistemaker*
- 1110 Antonius Jacobus Becqué**, LPR An integrated program and data management system for engineering applications, INFO, 1977.03.23, *prof.dr.ir. W.L. van der Poel*
- 1111 Peter Johann Henry Bultjes**, Memory effects in turbulent flows, MECH, 1977.03.30, *prof.ir. J.O. Hinze*

- 1112 Humphrey Ignaz Xaverius Mager**, Activation and transfer of oxygen by some non-enzymatic model systems, CHEM, 1977.03.30, *prof.dr. W. Berends*
- 1113 Cornelis van Leeuwen**, The lattice gas interface. A contribution to the theory of crystal growth, PHYS, 1977.04.20, *prof.dr. P. Bennema*
- 1114 Willem van Gent**, On the use of lifting surface theory for moderately and heavily loaded ship propellers, MARI, 1977.05.11, *prof.dr.ir. J.D. van Manen*
- 1115 Jan Bernard van Tricht**, Neutron diffraction study of carbontetrachloride, siliciumtetrachloride, titaniumtetrachloride and tintetrachloride in the liquid state at 295 K, PHYS, 1977.05.18, *prof.dr. J.J. van Loef*
- 1116 Gerhard Bakker**, Degradation of aromatic compounds by micro-organisms in dissimilatory nitrate reduction, LIFE, 1977.05.25, *prof.dr. T.O. Wiken*
- 1117 Joan Jurca**, A multiprocessor system with multitasking facilities, ELEC, 1977.06.08, *prof.ir. G.L. Reijns*
- 1118 Jacobus Cornelis Rasser**, Platinum-iridium reforming catalysts. TPD of hydrogen, selectivity and activity in heptane conversion, CHEM, 1977.06.08, *prof.dr. J.J.E. Scholten*
- 1119 Nicolaas Wijnolst**, Dynamics of national fleet development. Simulation models for maritime planners in developing countries, MARI, 1977.06.20, *prof.ir. N. Dijkshoorn*
- 1120 Hian Kie Lauw**, Stability and regions of attraction in large power systems, ELEC, 1977.06.22, *prof.dr.ir. F.A.W. van den Burg*
- 1121 Fredrick Lambertus Neerhoff**, Diffraction of elastic SH-surface waves, ELEC, 1977.06.29, *prof.dr.ir. A.T. de Hoop*
- 1122 Charles Frederik Hendriks**, Homogene katalyse van enige autoxydatiereacties door cobaltcomplexen, CHEM, 1977.07.06, *prof.dr.ir. H.C.A. van Beek*, *prof.dr.ir. P.M. Heertjes*
- 1123 Anthonie Hendrik Janse**, Nucleation and crystal growth in batch crystallizers, CHEM, 1977.09.14, *prof.ir. E.J. de Jong*
- 1124 Dirk Evert Boekee**, A generalization of the Fisher information measure, ELEC, 1977.09.28, *prof.ir. I.J. Boxma*
- 1125 Thomas Henri de Keijser**, On structures developed by spinodal decomposition. The interpretation of the X-ray diffraction and the role of excess vacancies in the coarsening, MATE, 1977.10.19, *prof.dr.ir. B. Okkerse*
- 1126 Johannes Dirk van Otterloo**, Some Schottky barriers on clean-cleaved silicon, ELEC, 1977.10.26, *prof.dr. M. Kleefstra*
- 1127 Guy Richard Kornblum**, Physical characterization of an inductively coupled plasma for analytical atomic spectroscopy, CHEM, 1977.10.26, *prof.dr. L. de Galan*
- 1128 Leendert Cornelis Elisa Struik**, Physical aging in amorphous polymers and other materials, MATE, 1977.11.02, *prof.dr. D.W. van Krevelen*
- 1129 Klaas van der Werff**, Kinematic and dynamic analysis of mechanisms, a finite element approach, MECH, 1977.11.02, *prof.dr.ir. J.F. Besseling*, *prof.Dr.-Ing. H. Rankers*

- 1130 Hieronymus Joseph Maria van Rooij**, On the inaccuracy of a massflow meter for supercritical ethylene, PHYS. 1977.11.16, *prof.dr.ir. C.J.D.M. Verhagen*, *prof.ir. R.G. Boiten*
- 1131 Petrus Marinus Maria Vervoorn**, De sterkte van titaandioxydegranules, CHEM. 1977.11.16, *prof.dr.ir. P.M. Heertjes*
- 1132 Jozef Anton Hendriks**, Natuurpark "de Maashorst." Landschapsplan voor de ontwikkeling van natuurschoon en recreatie, SCGE. 1977.11.23, *prof.dr.ir. F.M. Maas*
- 1133 Frederik Hendrik Maria Mischgofsky**, Studies on growth, characterization and magnetic properties of layer perovskites, PHYS. 1977.11.30, *prof.dr. P. Bennema*
- 1134 Jan Eduard Hoogenboom**, Adjoint Monte Carlo methods in neutron transport calculations, PHYS. 1977.12.14, *prof.dr.ir. H. van Dam*
- 1135 Leendert Gerrit Volker**, De methodiek van de raming-van-kosten van civiel-technische werken uit te voeren door een internationaal-opererende Nederlandse aannemingsonderneming, ADML. 1977.12.15, *prof.ir. H.J. Th. Span*, *prof.dr. G.G.J. Bos*
- 1136 Hendrik Tijdeman**, Investigations of the transonic flow around oscillating airfoils, AERO. 1977.12.21, *prof.ir. H. Bergh*, *prof.dr.ir. J.L. van Ingen*
- 1137 Johan Casper Kruithof**, Zuivering van Rijnwater met behulp van coagulatie en ozonisatie, LIFE. 1978.02.08, *prof.dr.ir. P.M. Heertjes*
- 1138 Eric Backer**, Cluster analysis by optimal decomposition of induced fuzzy sets, ELFC. 1978.02.15, *prof.ir. IJ. Boxma*
- 1139 Gerrit Hakvoort**, Vorming en ontleding van verbindingen AgMO_3 , CHEM. 1978.02.15, *prof.dr. J.L. Meijering*
- 1140 Robert Delhez**, Diffraction studies of concentration variations, PHYS. 1978.02.22, *prof.dr.ir. B. Okkerse*
- 1141 Eric Jan Mittemeijer**, Diffraction studies of concentration variations, PHYS. 1978.02.22, *prof.dr.ir. B. Okkerse*
- 1142 Cornelis Bruin**, A computer experiment on diffusion in the Lorentz gas, PHYS. 1978.03.01, *prof.dr. J.M.J. van Leeuwen*
- 1143 Jan Trommel**, Molecular motions and collisions in organic free radical solutions as studied by dynamic nuclear polarization, PHYS. 1978.03.08, *prof.dr.ir. J. Smidt*
- 1144 Cornelis Isaac Smits**, Dispersies van titaandioxyde, CHEM. 1978.03.08, *prof.dr.ir. P.M. Heertjes*
- 1145 Johannes Adreas Peters**, Synthesis, configurational and conformational analysis of some types of cyclohexane and bicyclo [3.3.1] nonane derivatives, CHEM. 1978.04.19, *prof.dr.ir. H. van Bekkum*
- 1146 Jacob Westerling**, The identification of flavin and pteridine free radicals by electron spin resonance, CHEM. 1978.04.26, *prof.dr. W. Berends*, *prof.dr. T.J. de Boer*
- 1147 Johannes Hirt**, Synthese van menselijk calcitonine, CHEM. 1978.05.03, *prof.dr. H.C. Beyerman*
- 1148 Taeke Marten de Jong**, Milieudifferentiatie; een fundamenteel onderzoek, SCGE. 1978.05.10, *prof.ir. L. Wijers*, *prof.dr. W. van Dooren*

- 1149 **Gerrit Mur**, Computation of electromagnetic fields in inhomogeneous media: scattering and guiding properties, ELEC, 1978.05.24, *prof.dr.ir. A.T. de Hoop*
- 1150 **Jacob Jan Boon**, Molecular biogeochemistry of lipids in four natural environments, LIFE, 1978.06.07, *prof.dr. P.A. Schenck*
- 1151 **Jacob Herre Santema**, Modellen in de wetenschap en de toepassing ervan. Een historische en systematische beschouwing vanuit christelijk-wijsgerig perspectief, HASS, 1978.06.08, *prof.dr.ir. H. van Riessen*
- 1152 **Robert Pieter Wilhelm Duin**, On the accuracy of statistical pattern recognizers, MATH, 1978.06.14, *prof.ir. J.W. Sieben*, *prof.dr.ir. C.J.D.M. Verhagen*
- 1153 **Bastiaan van de Graaf**, Studies on overcrowding in organic molecules, CHEM, 1978.06.14, *prof.dr.ir. B.M. Wepster*
- 1154 **Charles Quinton Bowles**, The role of environment, frequency and wave shape during fatigue crack growth in aluminum alloys, MATE, 1978.08.16, *prof.dr.ir. J. Schijve*
- 1155 **Jans Wijbe Lyklema**, Computer simulations of a rough sphere fluid, PHYS, 1978.09.06, *prof.dr. J.M.J. van Leeuwen*
- 1156 **Gerard van Veen**, Investigation of magnetic interactions in sulfides by means of magnetic resonance, CHEM, 1978.09.20, *prof.dr.ir. L.L. van Reijen*
- 1157 **Sunario Walujo**, Dynamics of sector policy. With emphasis on the maritime sector optimum development, MARI, 1978.09.20, *prof.ir. N. Dijkshoorn*, *prof.dr. G.G.J. Bos*
- 1158 **Carolus Johannes Asselbergs**, Evaporating crystallisers; a study of factors in operation and design of salt evaporators, CHEM, 1978.10.04, *prof.ir. E.J. de Jong*
- 1159 **Cornelis Johannes de Pater**, An experimental study of the incommensurate phase in Rb_2ZnBr_4 and Na_2CO_3 , PHYS, 1978.10.18, *prof.dr.ir. P.M. de Wolff*
- 1160 **Jerald Donald Cole**, Shape coexistence of light, even mercury isotopes, PHYS, 1978.11.01, *prof.dr. A.H. Wapstra*, *prof.dr.ir. B. van Noijen*
- 1161 **Peter van der Veer**, Calculation methods for two-dimensional groundwater flow, CIVI, 1978.11.01, *prof.dr.ir. J.C. van Dam*
- 1162 **Allan Knight Chesters**, Fundamental problems in gas-liquid two-phase flow, MECH, 1978.11.08, *prof.ir. J.O. Hinze*
- 1163 **Frans Frederik van Gunsteren**, Springing of ships in waves, MARI, 1978.11.09, *prof.ir. J. Gerritsma*
- 1164 **Bob Hoekstra**, Spin wave resonance studies of inhomogeneous La, Ga: YIG epitaxial films, PHYS, 1978.11.15, *prof.dr.ir. J. Smidt*, *prof.dr. D. Polder*
- 1165 **Jan Jakob Kok**, Evaluation of models describing human operator control of slowly responding complex systems, MECH, 1978.11.23, *prof.dr.ir. H.G. Stassen*, *prof.dr.ir. D. Kwakernaak*
- 1166 **Ronald Arie van Wijk**, Evaluation of models describing human operator control of slowly responding complex systems, MECH, 1978.11.23, *prof.dr.ir. H.G. Stassen*, *prof.dr.ir. D. Kwakernaak*

- 1167 Antoon Frans Mehlkopf**, Requirements, design and specifications of a multipurpose 7 Tesla NMR-system, PHYS. 1978.12.06, *prof.dr.ir. J. Smidt*
- 1168 Frank van Meurs**, Substituent effects in π (tricarbonylchromium) arenes, CHEM. 1978.12.07, *prof.dr.ir. H. van Bekkum*
- 1169 Klaas Berend Klaassen**, The reliability of analogue electronic systems, ELEC. 1978.12.13, *prof.dr.ir. J. Davidse*
- 1170 Onno te Nuyl**, Systeem dynamische benadering van het werkgelegenheidsprobleem in Zuidoost-Drenthe; situatiemodellen ter beoordeling van de invloed van economische maatregelen op de werkgelegenheid, HASS. 1978.12.20, *prof.dr. G.G.J. Bos*
- 1171 Reinder Nouta**, Studies in wave digital filter theory and design, ELEC. 1979.01.17, *prof.dr.ir. P.M. Dewilde, prof.dr.ir. A. Fettweis*
- 1172 Guido Josephus Thérèse den Otter**, Moduluseffect, inwendige demping en activeringsvolume van koper en enkele koperlegeringen na plastische vervorming, MATE. 1979.01.31, *prof.dr.ir. A. van den Beukel*
- 1173 Jacob Henrik Galjaard**, Informatisering; paradox van organisatie-technologie, ADMI. 1979.02.07, *prof.ir. H. Bosch, prof.dr. H.J. van Dongen*
- 1174 Bauke Vriesema**, Aspects of molten fluorides as heat transfer agents for power generation, ENER. 1979.02.14, *prof.ir. D.G.H. Latzko*
- 1175 Dirk Tjasse Biewinga**, An experimental study of electromagnetic frequency soundings, GEOS. 1979.02.21, *prof.dr. O. Koefoed*
- 1176 Christiaan Steenberghe**, Rotational motion of molecules and molecular groups in the solid state studied by neutron scattering, PHYS. 1979.02.21, *prof.dr.ir. L.A. de Graaf, prof.dr. J.J. van Loef*
- 1177 Robert Tijssen**, Axial dispersion in helically coiled open columns for chromatography, CHEM. 1979.02.28, *prof.dr. L. de Galan, prof.ir. C.J. Hoogendoorn*
- 1178 Berani Aiglon Norberto Carlo Apell**, Examination of gravity data filters constructed by the least squares method, GEOS. 1979.03.01, *prof.dr. O. Koefoed*
- 1179 Antonie van Lunteren**, Identification of human operator describing function models with one or two inputs in closed loop systems, MECH. 1979.03.14, *prof.dr.ir. H.G. Stassen*
- 1180 Marcel van der Leij**, Spectral-selective surfaces for the thermal conversion of solar-energy, PHYS. 1979.03.14, *prof.ir. C.J. Hoogendoorn*
- 1181 Hendricus Johannes Grootenboer**, Finite element analysis of two-dimensional reinforced concrete structures, taking account of non-linear physical behaviour and the development of discrete cracks, CIVI. 1979.03.21, *prof.ir. A.L. Bouma, prof.dr.ing. H.W. Reinhardt*
- 1182 Johannes Marie Louis Engels**, The drift velocity of excess electrons in fluid methane, argon and mixtures of methane and argon, PHYS. 1979.03.27, *prof.dr. J.J. van Loef, prof.dr. A. Hummel*
- 1183 Jean François Jérôme Marie Pourquié**, Spin-lattice relaxation of reorienting and tunneling methyl groups in solids, PHYS. 1979.04.04, *prof.dr.ir. J. Smidt*

1184 Johannes Adrianus Cornelis van Ooijen, Relations between magnetic and structural parameters in polynuclear transition metal coordination compounds, CHEM. 1979.04.18, *prof.dr. J. Reedijk*

1185 Robert Wisman, Fundamental investigation on interaction forces in bubble swarms and its application to the design of centrifugal separators, ENER. 1979.05.02, *prof.ir. D.G.H. Latzko, prof.ir. J.O. Hinze*

1186 Roland Walter Goldbach, Topologizing the tensor product, MATH. 1979.05.30, *prof.dr. F. Loonstra*

1187 Johan Frederik Dijkman, A study of some aspects of the mechanical behaviour of cross-spring pivots and plate spring mechanisms with negative stiffness, MECH. 1979.05.30, *prof.dr. D. de Jong, prof.dr.ir. W.T. Koiter*

1188 Helmut Johannes van Schaik, Theory and performance of a space-fed planar, phased-array antenna with 849 iris-loaded rectangular-waveguide elements and external matching sheet, ELEC. 1979.06.06, *prof.dr.ir. A.T. de Hoop, prof.ir. L. Krul*

1189 Jouke Reijn Heringa, A theoretical study of the behaviour at low temperatures of magnetic dipoles on a lattice, PHYS. 1979.06.06, *prof.dr. P.H.E. Meyer, prof.dr. J.M.J. van Leeuwen*

1190 Gerard Johan Holzmann, Coordination problems in multiprocessing systems, ELEC. 1979.06.14, *prof.ir. J.L. de Kruis, prof.dr.ir. W.L. van der Poel*

1191 Borek Sipek, Architektur als Vermittlung; Semiotische Untersuchung der architektonischen Form als Bedeutungsträger, ARCH. 1979.06.20, *prof. J.B. Bakema*

1192 Peter Verbrugge, Vapour-liquid equilibria of the ammonia-carbon dioxide-water system, CHEM. 1979.08.28, *prof.dr. P.J. van den Berg*

1193 Klaas te Nijenhuis, Dynamic mechanical studies on thermo-reversible ageing processes in gels of polyvinyl chloride and of gelatin, CHEM. 1979.08.28, *prof.dr. H.R.K.N. Janeschitz-Kriegl*

1194 Daan Lenstra, On the theory of polarization effects in gas lasers, PHYS. 1979.09.12, *prof.dr. W. van Haeringen*

1195 Nikolaas Praagman, Numerical solution of the shallow water equations by a finite element method, MATH. 1979.09.19, *prof.dr. E. van Spiegel*

1196 Hans van der Meulen, Het constant volume gasturbine proces volgens Karavodine, MECH. 1979.09.19, *prof. R.W. Stuart Mitchell, prof.dr. J.J. van Loef*

1197 Gerrit de Wit, Gedrag van glucose, fructose en verwante suikers in alkalisch milieu, CHEM. 1979.09.20, *prof.dr.ir. H. van Bekkum*

1198 Theodorus Maria Wortel, Some applications of zeolites in organic chemistry, CHEM. 1979.09.27, *prof.dr.ir. H. van Bekkum*

1199 Willem Christiaan Heerens, Theorie en praktijk van de absolute membraandrukverschilmeter, PHYS. 1979.10.03, *prof.dr. J. Kistemaker, prof.dr.ir. W.T. Koiter*

1200 Jacob Tjeerd Fokkema, Reflection and transmission of time-harmonic elastic waves by the periodic interface between two elastic media, ELEC. 1979.10.03, *prof.dr.ir. A.T. de Hoop*

1201 Willem Jan Naeije, Optimale uitgangsterugkoppeling als ontwerpmethode voor multivariabele regelsystemen, MECH, 1979.10.10, *prof.dr. R.G. Boiten*

1202 Gerrit Anton Korteweg, Magnetochemical investigations on Fe (III) in some ternary compounds, CHEM, 1979.10.10, *prof.dr.ir. L.L. van Reijen*

1203 Franciscus Joseph van Schaik, Domain wall motion and magnetization reversal processes in a FeSi picture frame single crystal studied by the time-dependent neutron depolarization technique, PHYS, 1979.10.18, *prof.dr. J.J. van Loefer*

1204 Geert van Marlen, On the retrieval of binary-coded mass spectra, CHEM, 1979.10.24, *prof.dr. J.H. van den Hende*, *prof.dr. A. Dijkstra*

1205 Gerardus Guillaume Bemer, Agglomeration in suspension: a study of mechanisms and kinetics, CHEM, 1979.10.31, *prof. F.J. Zuiderweg*

1206 Cornelis Gerhard van Kralingen, Antitumor platinum compounds; synthesis, structure and biological activity, LIFE, 1979.11.07, *prof.dr. J. Reedijk*, *prof.dr. L.M. van Putten*

1207 Robert René van der Meer, Anaerobic treatment of wastewater containing fatty acids in upflow reactors, LIFE, 1979.11.07, *prof.dr. P.M. Heertjes*

1208 Johannes Gustavus Erlings, A study of crystalline interfaces by means of electron diffraction and transmission electron microscopy, MATE, 1979.11.14, *prof.dr.ir. S. Radelaar*

1209 Arnold Willem Gerstel, The homogenisation of bulk material in blending piles, MECH, 1979.11.14, *prof.ir. G. Prins*, *prof.ir. J.W. Sieben*

1210 Rudolf Paulus Jozefs Merks, Investigations on resolution enhancement in EPR by means of electron spin echoes, PHYS, 1979.11.28, *prof.dr. B.S. Blaisse*

1211 Andrianto Handojo, Some properties of photothermoplastic recording materials, PHYS, 1979.12.12, *prof.dr.ir. H.J. Frankena*

1212 Leendert Arie Gerritsen, Hydroformylation with supported liquid phased rhodium catalysts, CHEM, 1979.12.12, *prof.dr. J.J.F. Scholten*

1213 Ludovicus Henricus Johannes Goossens, Reservoir destratification with bubble columns, PHYS, 1979.12.19, *prof. M.Sc. J.M. Smith*

1214 Arend Noordam, Stereoselective synthesis of (+)- pilocarpine, CHEM, 1979.12.19, *prof.dr. H.C. Beyerman*

1215 Franciscus Bartholomeus Johannes Barends, Nonlinearity in groundwater flow, CIVI, 1980.02.27, *prof.dr. A. Verruijt*

1216 Mathijs Soede, On the mental load in arm prosthesis control; a fundamental study on mental load and gain in function in relation to the acceptance of prostheses, MECH, 1980.02.27, *prof.dr.ir. H.G. Stassen*

1217 Jan Bernard Lefers, Absorption of nitrogen oxides into diluted and concentrated nitric acid, CHEM, 1980.03.12, *prof.dr. P.J. van den Berg*

- 1218 Gerrit Engbertus Berendsen**, Preparation and characterization of well-defined chemically bonded stationary phases for high pressure liquid chromatography, CHEM. 1980.04.16, *prof.dr. L. de Galan*
- 1219 Pieter Anne Vermeer**, Formulation and analysis of sand deformation problems, CIVIL. 1980.04.16, *prof.dr.ir. A. Verruijt*
- 1220 Peter Johan Oosterloo**, Dynamisch gedrag van grote overslagbruggen, MECH. 1980.04.23, *prof.ir. G. Prins, prof.dr.ir. J.F. Besseling*
- 1221 Margaretha Theodora Cecilia de Loos-Vollebregt**, Zeeman atomic absorption spectroscopy, CHEM. 1980.05.14, *prof.dr. L. de Galan*
- 1222 Jan Kapteijn**, Complicaties bij inwendige oxydatie van enige zilver- en koperlegeringen, MATE. 1980.05.22, *prof.dr. J.L. Meijering*
- 1223 Evert Izeboud**, Synthese van methionine bevattende peptiden via de sulfoxiden substance P en motiline, CHEM. 1980.05.28, *prof.dr. H.C. Beijerman*
- 1224 Johannes Raatgever**, On the binaural processing of stimuli with different interaural phase relations, PHYS. 1980.05.29, *prof.dr.ir. F.A. Bilsen, prof.dr. G. van den Brink*
- 1225 Petrus Antonius Maria Hofhuis**, Flow regimes on sieve-trays for gas/liquid contacting, CHEM. 1980.06.04, *prof. F.J. Zuiderweg*
- 1226 Alex Nico Westland**, Design of a braille lineprinter, MECH. 1980.06.04, *prof.dr. D. de Jong*
- 1227 Egbert Jan Hoogenberk**, Het idee van de Hollandse stad; stedenbouw in Nederland 1900-1930 met de internationale voorgeschiedenis, ARCH. 1980.06.05, *prof.ir. N.L. Prak*
- 1228 Johannes Andriessen**, Calculations of atomic configurations using many-body techniques in relativistic formulation, PHYS. 1980.06.11, *prof.dr. H. Postma*
- 1229 Cornelis Pronk**, Blade spindle torque and off-design behaviour of controllable pitch propellers, MARI. 1980.06.11, *prof.dr.ir. J.D. van Manen*
- 1230 Ernst Hugo Nordholt**, The design of high-performance negative-feedback amplifiers, ELEC. 1980.06.18, *prof.dr.ir. J. Davids*
- 1231 Johan Schram**, De stopped-flowmethode en de toepassing daarvan bij de bestudering van ligandsubstitutiereacties, CHEM. 1980.06.18, *prof.dr. J. Reedijk, prof.dr. J.L. Meijering*
- 1232 Jan Willem Koolhaas**, Organization dissonance and change, ADMI. 1980.06.19, *prof.ir. P.Ch.A. Malotau, prof. M.Sc. S.J. Doorman*
- 1233 Durk Jelmer van Dijk**, Volume-effecten bij zwichten van polymere glazen, CHEM. 1980.09.03, *prof.dr. J.H. Gisolf*
- 1234 Wilhelmus Martinus Maria Schinkel**, Natural convection in inclined air-filled enclosures, PHYS. 1980.09.10, *prof.ir. C.J. Huigendoorn*
- 1235 Nicolaas Anthony de Munck**, Gas phase hydroformylation of propylene and allyl alcohol with immobilized rhodium complexes, CHEM. 1980.09.24, *prof.dr. J.J.F. Scholten, prof.dr. W. Drenth*

- 1236 Wilhelmus Maria Gerardus Jochems**, Leerstofanalyse, HASS, 1980.09.24, *prof.dr. J. Vastenhouw*
- 1237 Johannes Christinus van Suijdam**, Mycelial pellet suspensions; biotechnological aspects, LIFE, 1980.10.01, *prof.dr.in. N.W.F. Kossen*
- 1238 Pieter Johannes 't Hoen**, Image quality of medical X-ray systems, ELEC, 1980.10.01, *prof.dr.ir. J. Davidse, prof.dr. M.A. Bouman*
- 1239 Maximus Alexander Viergever**, Mechanics of the inner ear; a mathematical approach, MATH, 1980.10.02, *prof.dr.ir. J.J. Kalker, prof.dr. E. de Boer*
- 1240 Johannes Albert Pinkster**, Low frequency second order wave exciting forces on floating structures, MARI, 1980.10.08, *prof.dr.ir. A.J. Hermans, prof.ir. J. Gerritsma*
- 1241 Joost Cornelis Walraven**, Aggregate interlock: a theoretical and experimental analysis, CIVI, 1980.10.08, *prof.Dr.-Ing A.S.G. Bruggeling*
- 1242 Franciscus Johannes Wubben**, Removal of formic acid from crude acetic acid by heterogeneous catalytic decomposition, CHEM, 1980.10.15, *prof.ir. W.A. de Jong, prof.ir. A.G. Montfoort*
- 1243 Fabienne Emilie Hellendoorn**, Influencia del Manierismo-Nórdico en la arquitectura virreinal religiosa de Mexico, ARCH, 1980.10.15, *prof.dr.ir. C.L. Temminck Groll*
- 1244 Johannes Joseph Kroon**, De eerste steen; een bouwkundig onderzoek naar de bijdrage van de opdrachtgever aan de vorm van het opgedragen bouwwerk, ARCH, 1980.10.16, *prof.ir. A. van Kranendonk*
- 1245 Alfred van Herk**, Three-dimensional analysis of magnetic fields in recording head-configurations, PHYS, 1980.10.23, *prof.dr.ir. A. T. de Hoop*
- 1246 Cornelis Olieman**, Synthetic investigations on morphinans, CHEM, 1980.10.30, *prof.dr. H.C. Beyerman*
- 1247 Theo Jacob Willem de Bruijn**, Battery-grade manganese dioxide by thermal decomposition of aqueous manganese nitrate solutions; an exploratory study, CHEM, 1980.11.05, *prof.ir. W.A. de Jong, prof.drs. P.J. van den Berg*
- 1248 Petrus Gerardus Joseph Koopman**, Ruthenium hydrogenation catalysts, activation characterization application, CHEM, 1980.11.05, *prof.dr.ir. H. van Bekkum*
- 1249 Alexander Wilhelmus Buijen van Weelderen**, Over de synthese van vasoactive intestinal peptide, LIFE, 1980.11.06, *prof.dr. H.C. Beyerman*
- 1250 Adrianus Venema**, Transduction and propagation of surface acoustic waves in three-layered media with an electrically conductive substrate, ELEC, 1980.11.13, *prof.dr.ir. S. Middelhoek*
- 1251 Joannes Venselaar**, Gas-phase aldol condensation over tin on silica catalysts, CHEM, 1980.11.20, *prof.ir. W.A. de Jong*
- 1252 Carolus van Eykelenburg**, Spirulina platensis, morphology & ultrastructure, LIFE, 1980.11.20, *prof.dr. A. Fuchs*
- 1253 Constant Johannes Goutziers**, Warings problem with non-integer exponents, MATH, 1980.11.26, *prof.dr. H.G. Meijer*

1254 Frederik van Rantwijk, Dewarbenzene derivatives; synthesis isomerization hydrogenation, CHEM. 1980.12.03, *prof.dr.ir. H. van Bekkum*

1255 Alcuinus Joannes Maria van Miltenburg, Een macro-economisch model van de Nederlandse landbouw, HASS, 1980.12.03, *prof.dr. G.G.J. Bos*

1256 Giok Khoen Khoe, Mechanics of spouted beds, CHEM. 1980.12.10, *prof.dr.ir. P.M. Heertjes*

1257 Hendrik Jan Kolkman, Tem In Situ straining and bulk studies of the selection of glide systems in F.C.C. single crystals, MATE, 1981.01.21, *prof.dr.ir. B. Okkerse, prof.dr. F.W. Schapink*

1258 Robert Bernard Barendregt, Thermal investigation of unstable substances, including a comparison of different thermal analytical techniques, CHEM, 1981.02.11, *prof.dr. P.J. van den Berg*

1259 Nicolaas Wilhelmus Simon Bruens, PWR plant and steam generator dynamics, ENER, 1981.02.11, *prof.ir. D.G.H. Latzko*

1260 Aart Adrianus van Gorkum, Quantitative thermal desorption spectrometry of noble gases in solids, PHYS, 1981.02.12, *prof.dr.ir. H. van Dam, prof. E.V. Kornelsen*

1261 Godefridus Hendricus Maria Gubbels, Het ontmenggebied in de vlocibare fase van het systeem galliumkwik-indium, CHEM, 1981.02.18, *prof.dr. J.L. Meijering*

1262 Theodoor Willem de Loos, Evenwichten tussen fluide fasen in systemen van lineair polyetheren en etheren, CHEM, 1981.02.18, *prof.dr.ir. G.A.M. Diepen*

1263 Hedzer Johannes van der Kooi, Metingen en berekeningen aan het systeem methaan-n-eicosaan, CHEM, 1981.02.25, *prof.dr.ir. G.A.M. Diepen*

1264 Robert Wilhelmus Hollander, Some applications of the perturbed directional correlation technique in nuclear physics, solid state physics and radio chemistry, PHYS, 1981.03.11, *prof.dr. A.H. Wapstra, prof.dr.ir. B. van Nooijen*

1265 Gerrit Kuiper, Cavitation inception on ship propeller models, MAR, 1981.03.11, *prof.dr.ir. J.D. van Manen, prof.ir. C.M. van Wijngaarden*

1266 Hüseyin Cetin Ünal, Some aspects of two-phase flow, heat transfer and dynamic instabilities in medium and high pressure steam generators, MECH, 1981.03.18, *prof.dr.ir. G. Ooms, prof.ir. D.G.H. Latzko*

1267 Martien Molenaar, A further inquiry into the theory of S-transformations and criterion matrices, GEOD, 1981.04.14, *prof.ir. W. Baarda*

1268 Jacob Hagoort, Waterflood-induced hydraulic fracturing, GEOS, 1981.04.16, *prof.ir. D.N. Dietz*

1269 Gerrit Adrianus van Zee, System identification for multivariable control, MECH, 1981.05.06, *prof.ir. R.G. Boiten*

1270 Paul Horowitz, Over het rendement van kleine luchtspoelmotoren, MECH, 1981.05.06, *prof.dr. D. de Jong*

1271 Johannes Jacobus Botman, Dynamics of housing and planning - a regional simulation model, ARCH, 1981.05.13, *prof.dr. P. Drewe, prof. H.J.M. Lombaers*

- 1272 Nico Booij**, Gravity waves on water with non-uniform depth and current, CIVI, 1981.05.19, *prof.dr.ir. J.A. Battjes*
- 1273 Leonardus Henricus Holthuijsen**, The directional energy distribution of wind generated waves as inferred from stereophotographic observations of the sea surface, CIVI, 1981.05.20, *prof.dr.ir. J.A. Battjes*
- 1274 Leo Johan Ernst**, A geometrically nonlinear finite element shell theory, MECH, 1981.05.27, *prof.dr.ir. J.F. Besseling*
- 1275 Johan Hendrik Huijsing**, Integrated circuits for accurate linear analogue electric signal processing, ELEC, 1981.06.03, *prof.dr.ir. J. Davidse*
- 1276 Johannes Cornelis Adelbertus van der Lubbe**, A generalized probabilistic theory of the measurement of certainty and information, ELEC, 1981.06.03, *prof.ir. Ij. Boxma*
- 1277 Paulus Petrus Leonardus Regtien**, Silicon dew-point sensor for accurate humidity measurement systems, ELEC, 1981.06.10, *prof.dr.ir. S. Middelhoek*
- 1278 Johannes Antonius Cornelis van de Donk**, Water aeration with plunging jets, PHYS, 1981.06.10, *prof. M.Sc. J.M. Smith*
- 1279 Petrus Johannes Schoenmakers**, A systematic approach to mobile phase effects in reversed phase liquid chromatography, CHEM, 1981.06.11, *prof.dr. L. de Galan*
- 1280 Hubrecht Johannis de Vriend**, Steady flow in shallow channel bends, CIVI, 1981.06.17, *prof.dr.ir. J.P.Th. Kalkwijk*
- 1281 Johannes Jacobus Joseph den Ridder**, Ammoxidation of toluene and xylenes to nitriles, CHEM, 1981.06.18, *prof.drs. P.J. van den Berg*
- 1282 Gerda Maria van Rosmalen**, Scale prevention; study on the crystallization of calcium sulfate and barium sulfate with and without inhibitors, CHEM, 1981.08.26, *prof.dr. P. Bennema, prof.dr. J. Reedijk*
- 1283 Anthonie Pieter Eland**, Identification of the adaptive feedback of the human motor system using the response difference method, MECH, 1981.09.03, *prof.dr.ir. H.G. Stassen*
- 1284 Johannes Albertus Don**, De selektieve katalytische hydrogenering van benzeen tot cyclohexeen over ruthenium, CHEM, 1981.09.03, *prof.dr. J.J.F. Scholten*
- 1285 Maarten van Doorn**, The control and dispersion of hazardous gas clouds with water sprays, PHYS, 1981.09.10, *prof. M.Sc. J.M. Smith*
- 1286 Jacobus Arie van Aken**, Birefringence and stress in polymer melts under shear and extension, CHEM, 1981.09.10, *prof.dr. H.R.K.N. Janeschitz-Kriegl*
- 1287 Tiemen Poorter**, Radiation detection with point-contact Josephson junctions, PHYS, 1981.09.22, *prof.dr.ir. J.E. Mooij*
- 1288 Jouke Arjen Miedema**, Cycles; a general computer code for thermodynamic cycle computations; studies of cogeneration in district heating systems, ENER, 1981.09.22, *prof.ir. J.J.C. van Lier*
- 1289 Dirk Jacob Ligthelm**, The influence of the spin-rotor coupling of methyl groups in solids on their NMR relaxation, PHYS, 1981.09.24, *prof.dr.ir. J. Smidt*
- 1290 Hendrik Willem Prins**, Some aspects of copper metabolism in brindled mice: model for Menkes' disease, LIFE, 1981.09.24, *prof.ir. J.P.W. Houtman*

- 1291 Edgar Charles Kruissink**, Coprecipitated nickel-alumina methanation catalysts, CHEM, 1981.09.30, *prof.dr.ir. L.L. van Reijen*
- 1292 Ali Aydin Esener**, An engineering study of bacterial kinetics and energetics, LIFE, 1981.10.01, *prof.dr.ir. N.W.F. Kossen, prof.ir. J.A. Roels*
- 1293 Jouke van der Veen**, Theoretische en experimentele aspecten van het facetteren van zilver, MATE, 1981.10.01, *prof.dr. J.L. Meijering*
- 1294 Edmond Deprettere**, Orthogonal filters, ELEC, 1981.10.13, *prof.dr.ir. P.M. Dewilde*
- 1295 Adolf Hendrikus Cornelis van Paassen**, Indoor climate, outdoor climate and energy consumption. A new approach to the calculation of the effect of the outdoor and indoor climate on the energy consumption in buildings based on methods of statistical analysis, ENER, 1981.10.22, *prof.ir. A.W. Boeke*
- 1296 Dirk Voskamp**, Investigations on secretin and analogues, CHEM, 1981.10.27, *prof.dr. H.C. Beyerman*
- 1297 Theodorus Petrus Marie Hendriks**, A method of characteristic surfaces; the approximate solution of three-dimensional supersonic flow fields, from the near field up to the sonic boom region, AERO, 1981.11.12, *prof.Dr.-Ing. S.F.A.H.P. Erdmann, prof.dr.ir. A.J. Hermans*
- 1298 Gerardus Johannes Jacobus van Heijningen**, Afslingerkoeling in tandwieloverbrengingen met rechte tanden, MECH, 1981.11.24, *prof.ir. H. Blok*
- 1299 Hendrik Pieter Egbert Helle**, An investigation of ship propeller fatigue, MARI, 1981.11.25, *prof.dr.ir. J. Schijve*
- 1300 Adriaan Bax**, Two-dimensional nuclear magnetic resonance in liquids, PHYS, 1981.11.26, *prof.dr.ir. J. Smidt*
- 1301 Gerrit Hein Nijhof**, Accelerated spheroidization of cold rolled eutectoid steel, MATE, 1981.12.08, *prof.dr.ir. B.M. Korevaar*
- 1302 Maurice Peereboom**, Theoretisch en experimenteel onderzoek naar de isomerisatiekinetiek van xylenen en methyleencyclohexaan/methylcyclohexenen, CHEM, 1981.12.17, *prof.dr. J.L. Meijering*
- 1303 Bartholomeus Gerardus Maria de Leer**, Draft-Tube-Baffle crystallizers. A study of stationary and dynamicly-behaving crystal-size-distributions, MECH, 1981.12.17, *prof.ir. E.J. de Jong*
- 1304 Gerard Cornelis Herman**, Scattering of transient acoustic waves in fluids and solids, ELEC, 1981.12.22, cum laude, *prof.dr.ir. A.T. de Hoop*
- 1305 Petrus Gerardus Krouwel**, Immobilized cells for continuous solvent production; ibe and ethanol fermentations, CHEM, 1982.01.28, *prof.dr.ir. N.W.F. Kossen*
- 1306 Hans Yde Steensma**, Defective phages of bacillus subtilis, LIFE, 1982.02.04, *prof.dr. J.G. Kuenen, prof. F.K. de Gnaaf*
- 1307 Alfred Aris Ham**, On the dynamics of hydraulic lines supplying servosystems, MECH, 1982.02.11, *prof.dr.ir. T.J. Viersma*
- 1308 Gerardus Jozef Louter**, An ultra-sensitive instrument for collision activated dissociation mass spectrometry with high mass resolution, PHYS, 1982.02.23, *prof.dr. J. Kistemaker*

1309 Gerrit van Duijn, Segregation of fluidized solids. Application in a hydrocyclone with a large cone angle, PHYS, 1982.02.25, *prof.dr. K. Rietema*

1310 Gerardus Cornelis Maria Meijer, Integrated circuits and components for bandgap references and temperature transducers, ELEC, 1982.03.18, *prof.dr.ir. J. Davidse*

1311 Jan Biemond, Image restoration. A linear stochastic filtering approach, ELEC, 1982.03.30, *prof.ir. I.J. Boxma*

1312 Cornelis Keiser, Absorption refrigeration machines. Theoretical and experimental assessment of the performance of aqua-ammonia absorption machines operated at marginal conditions, e.g. when powered by solar or waste heat. Development of a new type of absorber, MECH, 1982.04.06, *prof.ir. A.L. Stolk*

1313 Maarten Simon van den Berg, Theory on a partially ionized gas centrifuge, PHYS, 1982.04.15, *prof.dr. J. Kistemaker, prof.dr.ir. J.A. Steketee*

1314 Harmen Schippers, Multiple grid methods for equations of the second kind with applications in fluid mechanics, MATH, 1982.04.22, *prof.dr.ir. P. Wesseling*

1315 Jacob van Amerongen, Adaptive steering of ships. A model-reference approach to improved manoeuvring and economical course keeping, MARI, 1982.04.22, *prof.ir. H.R. van Nauta Lemke, prof.ir. J. Gerritsma*

1316 Jacob Wardenier, Hollow section joints, CIVI, 1982.04.29, *prof.ir. A.A. van Douwen*

1317 Cornelis Jan Koomen, A structure theory for communication network control. A framework for system design, ELEC, 1982.04.29, *prof.ir. J.L. de Kroes, prof.dr. M. Rem*

1318 Jan Willem Verheij, Multi-path sound transfer from resiliently mounted shipboard machinery. Experimental methods for analyzing and improving noise control, PHYS, 1982.05.13, *prof.dr.ir. A.J. Berkhout*

1319 Jan Willem van Beek, Kwantitatieve verplaatsingsmeting door interferentie-holografie in het virtuele beeld, MECH, 1982.05.13, *prof.dr. D. de Jong, prof.dr.ir. H.J. Frankena*

1320 Robert Herman Jan Fastenau, Diffusion limited reactions in crystalline solids. Theory and computer simulations, MATE, 1982.06.01, *prof.dr.ir. P. Penning*

1321 Franciscus Xaverius Maria Doorenbosch, A monolithically integrated wide-turnable sine oscillator, ELEC, 1982.06.03, *prof.dr.ir. J. Davidse*

1322 Evert Antonius Wolsheimer, Physics, technology and applications of junction charge-coupled devices, PHYS, 1982.06.03, *prof.dr. M. Kleefstra*

1323 Jacob Albert Ottjens, Pressure losses in pneumatic transport. A model based on particle-wall interactions and particle density distribution, MECH, 1982.06.10, *prof.ir. G.C. Meeuse, prof.dr.ir. G. Ooms*

1324 Cornelis van den Akker, Numerical analysis of the stream function in plane groundwater flow, CIVI, 1982.06.15, *prof.dr.ir. A. Verruijt, prof.ir. L. Huisman*

1325 Johannes Franciscus Leonardus Maria Brulx, Post-scrum LMFBFR heat transport system dynamics and steam generator control, ENER. 1982.06.17, *prof.ir. D.G.H. Latzko*

1326 Berend Jacob van der Linde, An experimental study on the use of manganese oxide on γ -alumina acceptors for flue gas desulfurization, CHEM. 1982.06.17, *prof.ir. W.A. de Jong*

1327 Dirk van de Meent, Particulate organic matter in the river Rhine Delta - its role in trace metal scavenging, LIFE. 1982.08.17, *prof.dr. P.A. Schenck*

1328 Amar Choudry, Automated digital processing of interferograms, PHYS. 1982.09.02, *prof.dr.ir. H.J. Frankena, prof.dr.ir. C.J.D.M. Verhagen*

1329 Johannes Jacobus Raue, De stad Delft, vorming en ruimtelijke ontwikkelingen in de late Middeleeuwen. Interpretatie van 25 jaar binnenstadsonderzoek, ARCH. 1982.09.23, *prof.dr.ir. J.C. Visser*

1330 Date Jan Willem Noorlag, Lateral-photoeffect position-sensitive detectors, ELEC. 1982.09.28, *prof.dr.ir. S. Middelboek*

1331 Alleke Jan Poelman, De Zwitserse welvaart. Een macro-economische studie over de periode na de Tweede Wereldoorlog, HASS. 1982.10.05, *prof.dr. G.G.J. Bos*

1332 Gerardus Wijnandus van Graas, Organic geochemistry of cretaceous black shale deposits from Italy and France, GEOS. 1982.10.07, *prof.dr. P.A. Schenck*

1333 Jan Jeen Seppen, A study of flow phenomena in internal (piston) combustion engines, MECH. 1982.10.19, *prof.dr.ir. E. van den Pol*

1334 Hendrik Bernard Bouwman, Optimum air duct system design. Design rules for minimum annual total cost of the combination of building and airduct system for mechanical ventilation of airconditioning, MECH. 1982.11.04, *prof.ir. A.W. Boeke, prof.ir. J. Vorenkamp*

1335 Paulus Adrianus Maria Grootsholten, Solid-liquid contacting in industrial crystallizers and its influence on product size distribution, CHEM. 1982.11.09, *prof.ir. E.J. de Jong*

1336 Andrej Jerzy Zielinski, Fracture of concrete and mortar under uniaxial impact tensile loading, CIVI. 1982.11.23, *prof.dr.ing. H.W. Reinhardt*

1337 Ing Ady Widya, Continuous-time stochastic modeling with lossless structures, ELEC. 1982.12.07, *prof.dr.ir. P.M. Dewilde*

1338 Frans Andreas Gerritsen, Design and implementation of the Delft Image Processor DIP-1, INFO. 1982.12.09, *prof.ir. G.L. Reijns, prof.dr.ir. C.J.D.M. Verhagen*

1339 Cornelis Vreeken, Diepbedfiltratie met modelsystemen, CHEM. 1983.01.11, *prof.ir. J.A. Wesselingh*

1340 Laurens Antoon ten Horn, Behoeften, werksituatie en arbeidsbeleving, HASS. 1983.01.20, *prof.mr.dr. M.H.K. van der Graaf, prof.dr. J. Vastenhouw*

1341 Robbert van Tilburg, Engineering aspects of biocatalysts in industrial starch conversion technology, LIFE. 1983.02.24, *prof.ir. J.A. Roels, prof.dr. G.M.A. van Beynum*

1342 Reinier van der Welle, A contribution to the numerical description of rotating two-phase flow, ENER. 1983.03.22, *prof.ir. D.G.H. Latzko, prof.dr.ir. G. Ooms*

- 1343 Antonius Joannes Jozef van der Weide**, The use of structural properties in lineair multivariable control system design, MECH. 1983.04.05, *prof.ir. R.G. Boiten*
- 1344 Herman Quce**, Quaternion algebra applied to polygon theory in three dimensional space, GEOD. 1983.04.05, *prof.ir. W. Baarda*
- 1345 Johannes Willem Niemantsverdriet**, A Mössbauer investigation of iron and iron alloy Fischer-Tropsch catalysts, PHYS. 1983.04.14, *prof.dr. J.J. van Loef*
- 1346 Jacob Anne den Boer**, Image formation in diagnostic X-ray equipment, PHYS. 1983.04.19, *prof.dr.ir. J.B. Le Poole*
- 1347 Jacob Verhoeff**, Experimental study of the thermal explosion of liquids, CHEM. 1983.04.26, *prof.dr. P.J. van den Berg*
- 1348 Frederik Willem van Voorden**, Schakels in de stedebouw - een model voor analyse van de ontwikkeling van de ruimtelijke kwaliteiten van de 19de-eeuwse stadsuitbreidingen op grond van een onderzoek in Gelderse steden, ARCH. 1983.04.28, *prof.dr.ing. A. Hendriks*
- 1349 Balthasar Adrianus de Jong**, The influence of wind and temperature gradients on outdoor sound propagation. Development and evaluation of a calculation method based on wavefield extrapolation, PHYS. 1983.05.03, *prof.dr.ir. A.J. Berkhout*
- 1350 Andreas Adrianus Anthonius Molenaar**, Structural performance and design of flexible road constructions and asphalt concrete overlays, CIVIL. 1983.05.10, *prof.ir. H.J. Th. Span, prof. R.L. Lytton*
- 1351 Johannes Lambertus Nooijen**, Trace elements in normal and cancerous rat liver, LIFE. 1983.05.26, *prof.ir. J.P.W. Houtman*
- 1352 Marcellis de Bruin**, Instrumental neutron activation analysis. A routine method, CHEM. 1983.06.09, *prof.ir. J.P.W. Houtman*
- 1353 Marianne Euphemia Corry Stuivinga**, Voltage-carrying states in superconducting microstrips, PHYS. 1983.06.09, *prof.dr.ir. J.E. Mooij*
- 1354 José Alberto Caiado Falcão de Campos**, On the calculation of ducted propeller performance in axisymmetric flows, MAR. 1983.06.14, *prof.dr.ir. J.D. van Manen, prof.dr.ir. P.J. Zandbergen*
- 1355 Erik Bernardus Johannes Kleiss**, On the determination of boiling water reactor characteristics by noise analysis, PHYS. 1983.06.16, *prof.dr.ir. H. van Dam*
- 1356 Hendrik Jacob van den Herik**, Computerschaak, schaakwereld en kunstmatige intelligentie, INFO. 1983.06.21, *prof. H.J.M. Lombaers, prof.dr. A.D. de Groot*
- 1357 Victor Zieren**, Integrated silicon multicollector magnetotransistors, ELEC. 1983.06.23, *prof.dr.ir. S. Middelhoek*
- 1358 Pieter Jan Hoek**, Large and small scale liquid maldistribution in a packed column, CHEM. 1983.06.23, *prof. F.J. Zuiderweg, prof.ir. J.A. Wesselingh*
- 1359 Johan Martinus Herman**, The industrial applicability of a rhodium based supported liquid phase catalysts to the hydroformylation of olefins, CHEM. 1983.06.28, *prof.dr. P.J. van den Berg, prof.dr. J.J.F. Scholten*

- 1360 Johannes Micheal Halbertsma**, The stride cycle of the cat: the modelling of locomotion by computerized analysis of automatic recordings, PHYS. 1983.06.30, *prof.dr. S. Grillner, prof.ir. B.P.Th. Veltman*
- 1361 Vincentius Hwic Hauw Tjia**, Analysis and optimization of advanced injection logic, ELEC. 1983.08.23, *prof.dr.ir. J. Davidse*
- 1362 Joost Hendrik de Vlieger**, Minimum-time control of systems with saturation bounds, using linear and quadratic programming techniques, ELEC. 1983.08.23, *prof.ir. H.B. Verbruggen*
- 1363 Ke-Ou Peng**, Imaging by curved holographic optical elements, PHYS. 1983.08.25, *prof.dr.ir. H.J. Franken*
- 1364 Paul Leo Ott**, Apparatuur voor pT-metingen en de daarmee verkregen resultaten voor de systemen I_2 - I_2 -Au en I_2 -Ag-Au, CHEM. 1983.08.30, *prof.dr. J.L. Meijering*
- 1365 Teddy Nicholas White**, Human supervisory control behavior : verification of a cybernetic model, SCGE. 1983.09.08, *prof.dr.ir. H.G. Stassen, prof.ir. J.E. Rijnsdorp*
- 1366 Cornelis Brouwer**, Onderzoek naar het karakteriseren van de kwaliteit van wegverkeer, CIVI. 1983.09.08, *prof.ir. J. Volmuller*
- 1367 Victor Jan de Waal**, Low noise squid, PHYS. 1983.09.13, *prof.dr.ir. J.E. Mooij*
- 1368 Petrus Adrianus Maria Ripson**, Development of a low-cost inductively coupled argon plasma, CHEM. 1983.09.15, *prof.dr. L. de Galan*
- 1369 Willem den Boer**, Interference effects and space-charge-limited conduction in amorphous silicon devices, ELEC. 1983.09.27, *prof.dr. M. Kleefstra*
- 1370 Adriaan Pot**, Industrial sucrose crystallisation. A study on the development of crystal size distributions in continuous and batch sucrose suspension crystallisers, CHEM. 1983.09.29, *prof.ir. E.J. de Jong*
- 1371 Aloysius Franciscus Bakker**, Design and implementation of the Delft molecular-dynamics processor, PHYS. 1983.09.29, cum laude, *prof.ir. B.P.Th. Veltman*
- 1372 Erik Vos**, Influence of loading rate and radial pressure on bond in reinforced concrete. A numerical and experimental approach, CIVI. 1983.10.18, *prof.dr.ing. H.W. Reinhardt, prof.dr.ir. J. Blaauwendraad*
- 1373 Arend Seine Bos**, Agglomeration in suspension, CHEM. 1983.11.03, *prof. F.J. Zuideweg, prof.dr.ir. G. Ooms*
- 1374 Paulus Petrus Joannes van den Bosch**, Short-term optimization of thermal power systems, ELEC. 1983.11.10, *prof.ir. G. Honderd, prof.dr. F.A. Lootsma*
- 1375 Abraham Johannes van der Zeeuw**, Solvent extraction in the winning of copper, nickel and cobalt, GEOS. 1983.11.10, *prof.ir. H.J. Roorda, prof.ir. J.A. Wesselingh*
- 1376 Leender Johannes Kuijvenhoven**, Aspects of continuous sucrose crystallization. A study of factors that influence the design and operation of continuous sucrose crystallizers, CHEM. 1983.11.15, *prof.ir. E.J. de Jong*
- 1377 Pieter Geert van Engen**, An experimental study of the magneto-optical properties of ferromagnetic alloys, PHYS. 1983.12.01, *prof.dr. J.J. van Loef*
- 1378 Gustaaf Sjoerd Stelling**, On the construction of computational methods for shallow water flow problems, MATH. 1983.12.06, cum laude, *prof.dr.ir. P. Wesseling*

- 1379 Cornelis Koenen**, The dynamic behaviour of a motorcycle when running straight ahead and when cornering, MECH, 1983.12.08, *prof.dr.ir. H.B. Pacejka*
- 1380 Claude Jean Charles Marcel Laurent**, A reappraisal of alumina in high pressure liquid chromatography, CHEM, 1983.12.22, *prof.dr. L. de Galan*
- 1381 Hendrik Christiaan Lammers**, Towards the practical application of self-running adaptive controllers, ELEC, 1984.01.24, *prof.dr. H.B. Verbruggen*
- 1382 Stephanus Antonius van Gils**, Some studies in dynamical system theory: I Volterra integral equations of convolution type, II Hopf bifurcation and symmetry, MATH, 1984.01.26, *prof.dr. P.P.J.E. Clément*
- 1383 Hendrik Johannes Bos**, On the aerodynamic optimization of supersonic wings, AERO, 1984.02.07, *prof.dr.ir. J.A. Steketee*
- 1384 Hugo Andreas Maria van den Berg**, Micromagnetics and domains in soft-ferromagnetic media, ELEC, 1984.02.07, *prof.dr.ir. S. Middelhoek*
- 1385 Hendricus Johannes Sips**, Design aspects of a distributed MIMD processor, INFO, 1984.03.13, *prof.dr.ir. L. Dekker*
- 1386 Nicolaas Marius Gerard Oosterhuis**, Scale-up of bioreactors. A scale-down approach, LIFE, 1984.03.20, *prof.dr.ir. N.W.F. Kossen*
- 1387 Joseph Johannes Heijnen**, Biological industrial waste-water treatment minimizing biomass production and maximizing biomass concentration, LIFE, 1984.03.22, *prof.dr.ir. N.W.F. Kossen*
- 1388 Hugo Bijl**, Liquid-liquid equilibria in binary (2-methoxyethanol + alkane) systems at pressures up to 4000 bar, CHEM, 1984.03.27, *prof.dr. R.N. Lichtenthaler*
- 1389 Firmin Marie Louis Mees**, Architectuurideologieën. Studie en kritiek der grondbeginselen, ARCH, 1984.03.27, *prof.ir. H. Hertzberger, prof.dr.ir. J. Kint*
- 1390 Marinus Verhage**, Design of model compounds for oxygen-binding iron proteins iron-dioxime systems and their reactivity towards dioxygen, CHEM, 1984.03.29, *prof.dr.ir. H. van Bekkum, prof.dr. J. Reedijk*
- 1391 Theodorus Gerhardus Aalbers**, Cardiovascular diseases and trace elements, LIFE, 1984.03.29, *prof.ir. J.P.W. Houtman, prof.dr. C.A. Wagenvoort*
- 1392 Joseph Adrianus Hendricus Alkemade**, On a differential equation and the Laplace-Stieltjes transform in the theory of linear positive operators, MATH, 1984.04.17, cum laude, *prof.dr. P.C. Sikkema*
- 1393 Pieter Douwe Idema**, The absorption heat pump with lithium, bromide/zinc bromide/methanol. Equations of state for lithium bromide and/or zinc bromide-methanol, MECH, 1984.05.10, *prof.ir. A.L. Stolk*
- 1394 Johannes Cornelis Oudejans**, Zeolite catalysts in some organic reactions, CHEM, 1984.05.10, *prof.dr.ir. H. van Bekkum*
- 1395 Cornelis Adrianus Maria Vijverberg**, Coordination of calcium and lanthanide cations by (hydr)oxycarboxylates in water as studied by multinuclear magnetic resonance, CHEM, 1984.05.22, *prof.dr.ir. H. van Bekkum*

1396 Jacob Klok, Composition and origin of complex organic matter in recent marine sediments. Significance of bacterial biomarkers, LIFE, 1984.05.24, *prof.dr. P.A. Schenck*

1397 Rudolf Addink, The chemiluminescence of a 6,7-dihydroflavin and some related pteridines, CHEM, 1984.05.24, *prof.dr. F. Müller*

1398 Diemer de Vries, Velocity analysis based on minimum entropy, PHYS, 1984.06.07, *prof.dr.ir. A.J. Berkhout*

1399 Johannes Albertus Maria Meijer, Inhibition of calcium sulfate scale by a fluidized bed, CHEM, 1984.06.12, *prof.ir. J.A. Wesselingh*

1400 Gerrit Jan van der Kolk, Thermal helium desorption spectrometry applied to metallic implants in tungsten, PHYS, 1984.06.14, *prof.dr.ir. H. van Dam, prof.dr. J.Th.M. de Hosson*

1401 O Ying-Lie, A single-photon ecat reconstruction procedure based on a PSF model, ELEC, 1984.06.19, *prof.dr.ir. A.J. Hermans*

1402 Lieuwe Zigterman, A new approach to specification and design of a railway-interlocking; the 'route' approach. An exercise in top-down design with stepwise refinement, ELEC, 1984.06.21, *prof.ir. J.L. de Kroes*

1403 Just Jan Christiaan Janz, Chloride hydrometallurgy for pyritic zinc-lead sulfide ores; the non-oxidative leaching route, CHEM, 1984.06.21, *prof.ir. E.J. de Jong, prof.ir. H.J. Roorda*

1404 Roelof Dijksterhuis, Spoorwegtracering en stedenbouw in Nederland. Historische analyse van een wisselwerking in de eerste eeuw: 1840-1940, CIVI, 1984.09.11, *prof.ir. M. van Wissen, prof.dr. W.F. Heinemeijer*

1405 Gerard Dirk Cornelis Kuiken, Wave propagation in initially stressed orthotropic compliant tubes containing a compressible, viscous and heat-conduction fluid, CIVI, 1984.09.13, *prof.dr.ir. H.J. Merk*

1406 Hennie Schaper, Development and characterization of a thermostable nickel-alumina methanation catalyst, CHEM, 1984.09.18, *prof.dr.ir. L.L. van Reijen*

1407 Willem Leopold de Koning, Digital optimal control systems with stochastic parameters, ELEC, 1984.10.10, *prof.dr. A. Johnson*

1408 Joseph Maria Gerardus Kunen, On the detection of coherent structures in turbulent flows, MECH, 1984.10.30, *prof.dr.ir. G. Ooms*

1409 Matthijs Pieter de Graaff, Pre-stack migration by single shot record inversion, PHYS, 1984.11.20, *prof.dr.ir. A.P.G. Kieboom, prof.dr.ir. A.J. Berkhout*

1410 Adrianus Bakker, The three-dimensional J-integral; an investigation into its use for post-yield fracture safety assessment, ENER, 1984.11.20, *prof.ir. D.G.H. Latzko*

1411 Rudolph Johannes Antonius Maria Smeulders, Microscopic systems with pulse lasers for the observation of solidification in rapidly flowing melts, PHYS, 1984.11.22, *prof.dr.ir. H.J. Frankena*

1412 Marcus Cornelis Maria Cornelissen, The thermal stability of superconductors cooled by a turbulent flow of supercritical helium, PHYS. 1984.11.22, *prof.dr. C.J. Hoogendoorn*

1413 Adriaan Willem Veenman, Contributions to the development of a multi-stage flash/fluidized bed evaporator (MSF/FBE), ENER. 1984.11.29, *prof.dr. J.J.C. van Lier*

1414 Franciscus Johanna Arnoldus Martens, Freeboard phenomena in a fluidized bed coal combustor, MECH. 1984.12.04, *prof.dr. C.W.J. van Koppen, prof.drs. P.J. van den Berg*

1415 Michiel Makkee, Combined action of enzyme and metal catalyst, applied to the preparation of D-mannitol, CHEM. 1984.12.04, *prof.dr.ir. H. van Bekkum*

1416 Herman Albert Mooij, Criteria for low-speed longitudinal handling qualities of transport aircraft with closed-loop flight control systems, AERO. 1984.12.06, *prof.dr.ir. O.H. Gerlach*

1417 Jan Arie Buijs, Innovatie en interventie; een empirisch onderzoek naar de effectiviteit van een procesgeoriënteerde adviesmethodiek voor innovatieprocessen, IDEE. 1984.12.06, *prof.dr. M. Mulder, prof.dr. Eur Ing J.M. Dirken*

1418 Rudger Abel Friso Smook, Binnensteden veranderen. Atlas van het ruimtelijke veranderingsproces van Nederlandse binnensteden in de laatste anderhalve eeuw, ARCH. 1984.12.11, *prof. P. Johnson Marshall, prof.dr. E.H.P. Baudet*

1419 Gerard Jan Blaauw, Car driving as a supervisory control task, MECH. 1984.12.20, *prof.dr.ir. H.G. Stassen, prof.drs. J. Mornal*

1420 Johannes Godthelp, Studies on human vehicle control, MECH. 1984.12.20, *prof.dr.ir. H.G. Stassen, prof.drs. J. Mornal*

1421 Durk van Willigen, Hard limiting and sequential detecting Loran-C sensor, ELEC. 1985.01.08, *prof.dr.ir. J. Davidse, prof.dr.ir. D.E. Boeke*

1422 Jacob van den Berg, Some contributions to percolation theory and related fields, MATH. 1985.01.08, *prof.dr. M.S. Keane*

1423 Leonardus Adrianus Joannes Maria Joseph Verhoeven, Digital substraction angiography. The DSA technique and an analysis of the physical factors influencing the image quality, ELEC. 1985.01.10, *prof.dr.ir. J. Davidse*

1424 Hendrik Leendert Pelt, Physicochemical aspects of supported liquid phase rhodium catalysts. The hydroformylation of the butenes, CHEM. 1985.02.07, *prof.dr. J.J.F. Scholten, prof.dr. W. Drenth*

1425 Andries Piet van der Meer, On counter-current fluidized ion-exchange columns, CHEM. 1985.02.07, *prof.ir. J.A. Wesselingh*

1426 Jozua Laven, Non-isothermal capillary flow of plastics related to their thermal and rheological properties, CHEM. 1985.02.28, *prof.dr. H.R.K.N. Janeschitz-Kriegl*

1427 Halgona Borappa Dakshina Murthy, Limitations to non-isothermal flow in lubricant films due to viscous-shear heating, MECH. 1985.03.14, *prof.ir. H. Blok, prof.dr.ir. M.J.W. Schouten*

1428 Carlos Alberto Infante Ferreira, Vertical tubular absorbers for ammonia-salt absorption refrigeration, MECH. 1985.03.26, *prof.ir. A.L. Stolk, prof. M.Sc. J.M. Smith*

1429 Stephanus Johannes Maria Linthorst, Natural convection suppression in solar collectors, *PHYS*, 1985.03.28, *prof.dr. C.J. Hoogendoorn*

1430 Antonius Christianus Johannes Hubertus Drouen, Computerized optimization and solute recognition in liquid chromatographic separations, *CHEM*, 1985.03.28, *prof.dr. L. de Galan*

1431 Jan van Eijk, On the design of plate-spring mechanisms, *MECH*, 1985.04.16, *prof.dr. D. de Jong*

1432 Wouter Leo Buitelaar, Vakbondswerk en kwaliteit van de arbeid. Voorbeelden van werknemersonderzoek in de Nederlandse industrie, *HASS*, 1985.04.23, *prof.dr. A.H.C.M. Walravens*

1433 Rudolf Lourens Vreeman, Vakbondswerk en kwaliteit van de arbeid. Voorbeelden van werknemersonderzoek in de Nederlandse Industrie, *HASS*, 1985.04.23, *prof.dr. A.H.C.M. Walravens*

1434 Maarten Simon Nieuwenhuizen, Synthesis and calcium complexation of oxidized carbohydrates and model polyoxygen systems, *CHEM*, 1985.05.09, *prof.dr. H. van Belkum, prof.dr. A.P.G. Kieboom*

1435 Peter Verkerk, Density- and temperature-dependence of the static and the dynamic structure factor in liquid argon measured by thermal neutron scattering, *PHYS*, 1985.05.09, *prof.dr. L.A. de Graaf, prof.dr. J.J. van Loef*

1436 Fredericus Johannes Joseph Brouwer, On the principles, assumptions and methods of geodetic very long baseline interferometry, *GEOD*, 1985.05.14, *prof.dr. W. Baarda, prof.dr. W.N. Brouw*

1437 Peter Kroon, Time-domain coding of (near) toll quality speech at rates below 16 KB/S, *ELEC*, 1985.05.21, *prof.dr. P.M. Dewilde*

1438 Menso Hendriks, X-ray diffraction; study of polycrystalline silicon layers, *PHYS*, 1985.05.21, *prof.dr. S. Radelaar*

1439 Inge Willem Noordergraaf, Sulfur capture during fluidized bed combustion of coal; external mass transfer phenomena and the fluid-dynamical behaviour of large particles, *CHEM*, 1985.05.28, *prof.dr. P.J. van den Berg*

1440 Martinus van Eck, Quantitative analysis of the urea synthesis by means of laser raman spectrometry, *CHEM*, 1985.05.28, *prof.dr. L. de Galan*

1441 Henricus Petrus Antonius Haas, Convexity analysis of hexagonally sampled images, *ELEC*, 1985.06.04, *prof.dr. I.J. Boxma*

1442 Tatang Hernas Soerawidjaja, Steam-regenerative removal of H_2S at high temperatures using metal oxide on alumina acceptors, *CHEM*, 1985.06.13, *prof.dr. W.A. de Jong, prof.dr. P.J. van den Berg*

1443 Fredericus Antonius Maria Schreiner, Ambacht en kleine nijverheid in de oudere stadsdelen van de drie grote steden in de randstad, *SCGE*, 1985.06.13, *prof.dr. P. van Schilfgaarde*

1444 Albertus Cornelis van der Woerd, The design of carrier domain devices for non-linear signal processing, *ELEC*, 1985.06.18, *prof.dr. J. Davidse*

1445 Emile Willibrordus Jacob Marie van der Drift, The role of electron; electron double resonance in spin relaxation studies on radicals in liquid solutions, *PHYS*, 1985.09.03, *prof.dr. J. Smidt*

- 1446 Petrus Johannes Gertrudis Teunissen**, The geometry of geodesic inverse linear mapping and non-linear adjustment, GEOD, 1985.09.05, cum laude, *prof.ir. W. Baarda, prof.Dr.-Ing. R. Rummel*
- 1447 Adrianus Antonius van Well**, Neutron scattering studies of density fluctuations in liquid argon and neon, PHYS, 1985.09.05, *prof.dr.ir. L.A. de Graaf, prof.dr. J.J. van Loef*
- 1448 Michaël Jozef Duijvestijn**, The use of dynamic nuclear polarization in ^1H and ^{13}C solid state NMR, PHYS, 1985.09.10, *prof.dr.ir. J. Smidt*
- 1449 Peter Martin Bruinenberg**, The NADP(H) redox couple in yeast metabolism : fundamental and applied aspects, LIFE, 1985.09.12, *prof.dr. J.G. Kuenen*
- 1450 Karel Ludwig Meijer**, Computation of stresses and strains in saturated soil, CIVI, 1985.09.17, *prof.dr.ir. A. Verruijt*
- 1451 Ronald Johannes Maria Kool**, Dynamic modeling and identification of a coal-fired pressurized fluidized bed combustor, ENER, 1985.09.17, *prof.ir. D.G.H. Latzko*
- 1452 Johannes Adriaan Duine**, Quinoprotein (PQQ-containing) alcohol dehydrogenases, CHEM, 1985.09.19, *prof.dr. J.G. Kuenen, prof.dr. B.F. Gelder*
- 1453 Frankwin van Dieren**, Renormalization of the gas-liquid transition, PHYS, 1985.09.24, *prof.dr. J.M.J. van Leeuwen*
- 1454 Hermanus Carel Frans Rozendaal**, The influence of nitriding on the microstructure and stress state of iron and steel, MATE, 1985.10.03, *prof.dr.ir. B.M. Korevaar, prof.dr.ir. E.J. Mittemeijer*
- 1455 Paulus Adrianus Wieringa**, The influence of the coronary capillary network on the distribution and control of local blood flow, MECH, 1985.10.15, *prof.dr.ir. H.G. Stassen, prof.dr.ir. J.A.E. Spaan*
- 1456 Michael Goldan**, Toepassing van modulaire bouwcomponenten in het ontwerpen en bouwen van diepdrijvende platformen, MARI, 1985.10.15, *prof.dr.Dipl.-Ing. C. Gallin, prof.ir. S. Hengst*
- 1457 Adrianus Schuitman**, A class of integral transforms and associated function spaces, MATH, 1985.10.22, *prof.dr. B.L.J. Braaksma*
- 1458 Aart Jan van Bekkum**, Theoretical and experimental investigation of the liquid flow around a gas bubble, MECH, 1985.11.07, *prof.dr.ir. G. Ooms, prof. M.Sc. J.M. Smith*
- 1459 Adel Mohammed Hamdy**, Advantages and limitations of river-sea shipping, taking as example the West-European-Mediterranean (Egyptian) route, MARI, 1985.11.12, *prof.dr.Dipl.-Ing. C. Gallin, prof.dr.ing. H.H. Heuser*
- 1460 Robert Gerardus Jacobus Maria van der Lans**, Hydrodynamics of a bubble column loop reactor, PHYS, 1985.11.26, *prof. M.Sc. J.M. Smith*
- 1461 Wardiman Djojonegoro**, Shipping as a decisive parameter in Indonesia's energy source development. Policies for the shipbuilding industry, MARI, 1985.11.26, *prof.ir. N. Dijkshoorn*
- 1462 Hendrik Frederikze**, Neutron diffraction on sub- and supercritical krypton, PHYS, 1985.11.28, *prof.dr. J.J. van Loef*

1463 Hendrikus Hubertus Siebers, Patterns and variability of phosphate and heavy metals in sediments of two shallow lakes, CIVI, 1985.11.28, *prof.dr. M. Donze, prof.ir. L. Huisman*

1464 Peter Robert Mesdag, Estimation of medium parameters by acoustic echo measurements, PHYS, 1985.12.03, *prof.dr.ir. A.J. Berkhout*

1465 Chitrapu Venkata Krishna Prabhakara Rao, A systems approach to the multiport lossless inverse scattering problem, ELEC, 1985.12.10, *prof.dr.ir. P.M. Dewilde*

1466 Leonardus Petrus Ligthart, Antenna design and characterization based on the elementary antenna concept, ELEC, 1985.12.10, *prof. W.F.J.M. Krul*

1467 Jan Hendrik Richardus, Q-koorts in Nederland : klinische, epidemiologische en immunologische aspekten, LIFE, 1985.12.17, *prof.dr. J. Huisman*

1468 Gerardus Antonius Maria van Meurs, Seasonal heat storage in the soil, PHYS, 1985.12.19, *prof.ir. C.J. Hoogendoorn*

1469 Jacobus Cornelis Ruitenbeek, Visual and proprioceptive information in goal directed movements. A system theoretical approach, MECH, 1985.12.19, *prof.dr.ir. H.G. Stassen*

1470 Cornelis Johan Peters, Phase behaviour of binary mixtures of ethane + n-eicosane and statistical mechanical treatment of fluid phases, CHEM, 1986.01.16, *prof.dr. R.N. Lichtenthaler*

1471 Cornelis Pieter Arie Wapenaar, Pre-stack migration in two and three dimensions, PHYS, 1986.02.06, cum laude, *prof.dr.ir. A.J. Berkhout*

1472 Hendrik Cornelis Nauta, Fundamental aspects and design of monolithically integrated AM radio receivers, ELEC, 1986.02.11, *prof.dr.ir. J. Davidse*

1473 Herbert Barkhuysen, On the electron spin echo envelope modulation technique case studies with application of parametric spectral analysis, PHYS, 1986.02.18, *prof.dr. H. Postma*

1474 Robert Arthur Henry Edwards, The electrochemical conditions inside stress corrosion and corrosion fatigue cracks, MATE, 1986.03.11, *prof.dr. J.H.W. de Wit, prof.dr.ir. W.A. Schultze*

1475 Frans Gertrud Jozef Absil, The entrainment of particles by a turbulent spot in a laminar boundary layer, MECH, 1986.03.13, *prof.dr.ir. G. Ooms*

1476 Gert Boelens, Turbulent fluidization and heat transfer in a pressurized fluidized bed combustor, MECH, 1986.03.25, *prof.ir. C.W.J. van Koppen*

1477 Jacob Jacobus Elmendorp, A study on polymer blending microrheology, CHEM, 1986.04.01, *prof.dr.ir. A.K. van der Vegt*

1478 René de Borst, Non-linear analysis of frictional materials, CIVI, 1986.04.22, *prof.dr.ir. A. Verruijt*

1479 Arie Dick Graafland, Esthetisch vertoog en ontwerp. Theorie en methode van betekenisverlening in architectuur en kunst, HASS, 1986.04.22, *mu.prof.dr. F. Bollerey*

1480 Ronald Paans, A close look at MVS systems: mechanisms performance and security, INFO, 1986.05.01, *prof.ir. G.L. Reijns, prof.dr. I.S. Herschberg*

1481 Isabella Maria Leonarda Jöbses, Modelling of anaerobic microbial fermentations. The production of alcohols by *Zymomonas mobilis* and *Clostridium beijerinckii*, LIFE, 1986.05.01, *prof.dr. K.C.A.M. Luyben, prof.ir. J.A. Roels*

1482 Marinus Maria Cornelis Gerardus Warmoeskerken, Gas-liquid dispersing characteristics of turbine agitators, PHYS, 1986.05.06, *prof. M.Sc. J.M. Smith*

1483 Johannes Alouisius de Waal, On the rate type compaction behaviour of sandstone reservoir rock, CIVI, 1986.05.06, *prof.dr.ir. A. Verruijt*

1484 Arnoldus Cornelis Rudolphus Hogervorst, Comparative study of the modulated structures in Rb , $Zn Br_3$ and in related compounds, PHYS, 1986.05.13, *prof.dr.ir. F. Tuinstra, prof.dr.ir. P.M. de Wolff*

1485 Jan Maarten de Bruyn, Monosaccharides in alkaline medium: isomerization degradation oligomerization, CHEM, 1986.05.13, *prof.dr.ir. H. van Bekkum, prof.dr.ir. A.P.G. Kieboom*

1486 Geertruida Helena Schoutens, Modelling and design of an immobilized cell process for solvent production, CHEM, 1986.05.15, *prof.dr.ir. N.W.F. Kossen, prof.ir. K.C.A.M. Luyben*

1487 Paulus Augustinus Johannes Maria Steenkamp, Investigation into the validity of J-based methods for the prediction of ductile tearing and fracture, ENER, 1986.05.15, *prof.ir. D.G.H. Latzko*

1488 René Victoire Adolf Oliemans, The lubricating-film model for core-annular flow, MECH, 1986.05.20, *prof.dr.ir. G. Ooms*

1489 Nicolaas Lambert, Plastic low power cryocoolers, PHYS, 1986.05.29, *prof.dr. G.J.C. Bors, prof.dr.ir. J.E. Mooij*

1490 Hieronymus Anthonius Körmeling, Strain rate and temperature behaviour of steel fibre concrete in tension, CIVI, 1986.06.03, *prof.dr.ing. H.W. Reinhardt, prof.dr.ir. Y.M. de Haan*

1491 Matthijs Kok, Conflict analysis via multiple objective programming with experiences in energy planning, MATH, 1986.06.10, *prof.dr. F.A. Lootsma*

1492 Leendert Dorst, Discrete straight line segments: parameters, primitives and properties, PHYS, 1986.06.10, cum laude, *prof.dr. I.T. Young*

1493 Petrus Hendrikus Maria Vervest, Innovation in elektroniek mail; towards open information networks - perspectives on innovation policy, INFO, 1986.06.12, *prof.dr.ir. J.G. Wissema*

1494 Petrus Johannes Jozef Kok, Capture of thermal neutrons in ^{10}B and 6Li , PHYS, 1986.06.17, *prof.dr. H. Pastma, prof.dr. W.J. Huiskamp*

1495 Wilhelmus Martinus Maria Schaaper, Synthese van vasoactive intestinal peptide via de gemengd anhydride methode, CHEM, 1986.06.17, *prof.dr. H.C. Beyerman*

1496 Hendrik van der Graaf, Signal development and processing in multi wire proportional chambers, PHYS, 1986.06.19, *prof.dr. A.H. Wapstra*

1497 Nicolaas Rudolf Kemper, Ontwerp van een Brailledisplay, MECH, 1986.06.26, *prof.dr. D. de Jong*

1498 Rudolf Boetes, Heat transfer reduction in closed cell polyurethane foams, PHYS, 1986.09.23, *prof.dr. C.J. Hoogendoorn*

1499 Lourus Wiek, Staalkabels. Geometrie en levensduur, MECH, 1986.10.07, *prof.dr. G.C. Meeuse*

1500 Jacques Joseph Marie Geraets, Centrifugal scaling of isothermal gas-liquid flow in horizontal tubes, MECH, 1986.10.09, *prof.dr.ir. G. Ooms*

1501 Jan van Breugel, Optimization and control of biotechnical processes using mechanistic mathematical models, LIFE, 1986.10.09, *prof.ir. G. Honderd, prof.dr.ir. N.W.F. Kossen*

1502 Jan Berend Klaassens, Electronic energy conversion with a switched series-resonant network operating at high frequency, ELEC, 1986.10.14, *prof.dr.ing. W. Delcroix*

1503 Norbert Stüsser, Neutron depolarization study of static and dynamic magnetic properties of ferromagnets, PHYS, 1986.10.16, *prof.dr. J.J. van Loef*

1504 Bernardus Johannes Anthonius Kröse, A description of visual structure, IDEE, 1986.10.21, *prof.dr.ir. R. den Buurman, prof.dr.ir. E. Backer*

1505 Jan Albert Mulder, Design and evaluation of dynamic flight test manoeuvres, AERO, 1986.10.28, cum laude, *prof.dr.ir. O.H. Gerlach, prof.dr.ir. P. Eykhoff*

1506 Jarke Jan van Wijk, On new types of solid models and their visualization with ray tracing, INFO, 1986.10.28, cum laude, *prof.dr. D.J. McConalogue*

1507 Augustinus Johannes Maria Jansen, Fluid motions generated by the injection of an electric current, AERO, 1986.10.30, *prof.dr.ir. J.A. Steketee*

1508 Margaretha Petra Catharina Weijnen, The influence of additives on the crystallization of gypsum, CHEM, 1986.10.30, *prof.dr. P. Bennema, prof.ir. J.A. Wesselingh*

1509 Raphael Soerjadi, Spreading of particles in some displacements probability field, MATH, 1986.11.11, *prof.dr.ir. A.J. Hermans*

1510 Willem Berend Bloem, Transient heat transfer to supercritical helium at low temperatures, PHYS, 1986.11.20, *prof.dr. H. Postma*

1511 Martinus Hyacinthus Laurentius Maria van den Broek, The design of rotationally symmetric triode electron guns, PHYS, 1986.11.20, *prof.dr.ir. K.D. van der Mast, prof.dr.ir. H.L. Hagedoorn*

1512 Egbertus Deetman, Computer Assisted Instruction (CAI) in Computer Aided Ship Design (ASD), MARI, 1986.11.25, *prof.dr. J. Vastenhout, prof.dr. Dipl.-Ing. C. Gallin*

1513 Johannes de Bie, The control properties of small eye movements, PHYS, 1986.11.27, *prof.dr. G. van den Brink, prof.dr.ir. F.A. Bilsen*

1514 Martin van Duin, Borate esters: identification, structure, stability and cation coordinating ability, CHEM, 1986.12.02, *prof.dr.ir. H. van Bekkum, prof.dr.ir. A.P.G. Kieboom*

1515 John William van Giessen, Longitudinal emission tomography of thyroid and heart; a technical evaluation of three imaging devices, MATH, 1986.12.04, *prof.dr.ir. A.J. Hermans*

1516 Martine Caroline Schoenmaker-stolk, Kinetics and mechanism of benzene hydrogenation over supported Ru, Cu and Ru-Cu catalysts, CHEM, 1986.12.09, *prof.dr. J.J.F. Scholten*

1517 Leonard Heinrich Luthjens, Pulse radiolysis with (sub)nanosecond time resolution using a 3MV electron accelerator, PHYS, 1986.12.09, *prof.dr. A. Hummel, prof.dr. J.J. van Loef*

1518 Pier Vellinga, Beach and dune erosion during storm surges, CIVI, 1986.12.16, *prof.dr.ir. E.W. Bijker*

1519 Stefan Karl Heffels, Product size distributions in continuous and batch sucrose crystallizers, CHEM, 1986.12.16, *prof.ir. E.J. de Jong*

1520 Anthonie Bastiaan Ruighaver, Hierarchical programming and the DPP84, INFO, 1986.12.18, *prof.dr.ir. L. Dekker*

1521 René du Cloux, Symmetry properties of elastodynamic wave fields and their application to space-time scattering theory, ELEC, 1986.12.18, cum laude, *prof.dr.ir. A.T. de Hoop, prof.dr. A.W. Grootendorst*

1522 Nico Selhorst Blom, Computer generation of convergent beam electron diffraction patterns, PHYS, 1987.01.20, *prof.dr.ir. S. Radelaar*

1523 Willem Lodewijk Theodoor Thijs, Fault management, MECH, 1987.01.22, *prof.dr.ir. H.G. Stassen, prof.dr.ir. J.J. Kok*

1524 Marcel Leona Clementine Eduard Verbruggen, Aramid reinforced aluminium laminates: Arral adhesion problems and environmental effects. Vol. A: Adhesion and delamination, vol. B: Environmental effects, MATE, 1987.02.03, *prof.dr.ir. J. Schijve*

1525 Johannes Petrus van der Linden, Liquid-liquid separation in disc-stack centrifuges, CHEM, 1987.02.05, *prof.ir. E.J. de Jong*

1526 Victor Robert Bom, A semiconductor beta ray spectrometer, PHYS, 1987.02.05, *prof.dr. A.H. Wapstra*

1527 Jilt Sietsma, Structural investigations of some metallic glasses, PHYS, 1987.02.17, *prof.dr.ir. S. Radelaar*

1528 Johan Hamelink, The dislocation structure of twist boundaries and the influence of impurities, PHYS, 1987.03.10, *prof.dr.ir. S. Radelaar*

1529 Jan Molema, Antoni Gaudi: een weg tot oorspronkelijkheid, ARCH, 1987.03.12, *prof.ir. M.E. Zuurs, prof.dr. W.A. Reinink*

1530 Wilhelmus Theodorus Maria Buters, Helium trapping in cold worked single crystalline molybdenum observed with thermal helium desorption spectrometry, MATE, 1987.03.19, *prof.dr.ir. A. van den Beukel*

1531 Qi Ping Chu, Maximum likelihood parameter identification of flexible spacecraft, AERO, 1987.03.31, *prof.dr.ir. O.H. Gerlach*

1532 Arie Albert Wismeyer, Special catalyst systems for the synthesis and conversion of some oxygenates, CHEM, 1987.03.31, *prof.dr.ir. H. van Bekkum, prof.dr.ir. A.P.G. Kieboom*

1533 Lucas Dominicus Maria van den Brekel, Hydrodynamics and mass transfer in domestic drum-type fabric washing machines, CHEM, 1987.04.02, *prof.ir. E.J. de Jong*

1534 Franciscus Joseph Brandsma, Low Froude number expansions for the wave pattern and the wave resistance of general ship forms, MATH. 1987.04.14, *prof.dr.ir. A.J. Hermans*

1535 Joseph Henricus Maria Titus van der Hijden, Propagation of transient elastic waves in stratified anisotropic media, ELEC. 1987.04.16, cum laude, *prof.dr.ir. A.T. de Hoop*

1536 Jan Bernhard Vos, The calculation of turbulent reacting flows with a combustion model based on finite chemical kinetics, AERO. 1987.04.23, *prof.dr.ir. J.A. Steketee, prof.dr. A.E.P. Veldman*

1537 Petrus Stephanus Cornelis van der Plas, Realization of flow torches for inductively coupled plasma spectrometry, CHEM. 1987.04.28, *prof.dr. L. de Galan*

1538 Huibert Jacob Dane, Climate control of incubators related to growth and thermoregulation of newborn infants, LIFE. 1987.05.07, *prof.dr. H.K.A. Visser, prof.ir. B.P.Th. Veltman*

1539 Peter van den Hamer, A quantitative analysis of the enhancement of superconductivity, PHYS. 1987.05.07, *prof.dr.ir. J.E. Mooij, prof.dr.ir. T.M. Klapwijk*

1540 Antonius Gregorius Tjhuis, Electromagnetic inverse profiling; theory and numerical implementation, ELEC. 1987.05.12, cum laude, *prof.dr.ir. H. Blok*

1541 Petrus Josephus Fredericus Gommers, Microbiological oxidation of sulfide and acetate in a denitrifying fluidized bed reactor. Fundamental and microbiological aspects, LIFE. 1987.05.14, *prof.dr. J.G. Kuenen, prof.ir. K.C.A.M. Luyben*

1542 Marinus Marias Boone, Design and development of a synthetic acoustic antenna for highly directional sound measurements, PHYS. 1987.05.19, *prof.dr.ir. A.J. Berkhout*

1543 Erik Huizer, Structural relaxation in some metallic glasses, MATE. 1987.05.19, *prof.dr.ir. A. van den Beukel*

1544 Pieter Johannes Daudey, Crystallization of ammonium sulfate. Secondary nucleation and growth kinetics in suspension, CHEM. 1987.05.26, *prof.ir. E.J. de Jong*

1545 Johannes Anthonius Maria van der Weide, Stochastic processes and point processes of excursions, MATH. 1987.05.26, *prof.dr. C.L. Scheffer*

1546 Jacob Jan Frijlink, Physical aspects of gassed suspension reactors, PHYS. 1987.06.02, *prof. M.Sc. J.M. Smith*

1547 Bartholomeus Josef van Schie, The physiological function of gluconic acid production in acinetobacter species and other gram-negative bacteria. Implications for energy conservation, LIFE. 1987.06.02, *prof.dr. J.G. Kuenen*

1548 Sjoerd Eduard Jan Spierenburg, Seabed response to water waves, CIVIL. 1987.06.09, *prof.dr.ir. A. Verruijt*

1549 Renatus Willem Clemens van der Veeken, Configurational filtering and sampling methods in the computation of frequency-domain electromagnetic fields, ELEC. 1987.06.09, *prof.dr.ir. H. Blok*

1550 Sierd van der Sluis, A clean technology phosphoric acid process, CHEM. 1987.06.11, *mu.prof.dr.ir. G.M. van Rosmalen, prof.ir. J.A. Wesselingh*

1551 Dirk Schmal, A model for the spontaneous heating of stored coal, CHEM, 1987.06.11, *prof.ir. J.A. Wesselingh*

1552 Francois Cornelis van Geer, Applications of Kalman filtering in the analysis and design of groundwater monitoring networks, CIVI, 1987.06.23, *prof.dr. P.A. Burrough, prof.dr.ir. J.J. Kalker*

1553 Leonardus Cornelis van Rijn, Mathematical modelling of morphological processes in the case of suspended sediment transport, CIVI, 1987.06.23, *prof.dr.ir. M. de Vries*

1554 Arthur Sieders, Estimation of spectral and nonlinear regression parameters, MATH, 1987.06.25, *prof.dr. C.L. Scheffer*

1555 Frederik Willem Jansen, Solid modelling with faceted primitives, IDEE, 1987.09.01, *prof. W.H. Crouwel, prof.dr. D.J. McConologue*

1556 Otto Rompelman, Hartritmeariabiliteit, meting, verwerking en interpretatie, ELEC, 1987.09.03, *prof.ir. IJ. Boxma, prof.dr H. Schneider*

1557 Jan van der Schaar, Groei en bloei van het Nederlandse volkshuisvestingsbeleid, HASS, 1987.09.03, *prof.dr.ir. H. Priemus*

1558 Tjay Tjien Tjioe, Reduction of the cadmium content of phosphoric acid and calcium sulfate, CHEM, 1987.09.08, *muu.prof.dr.ir. G.M. van Rosmalen, prof.dr.ir. P. Wesseling*

1559 Marco Lafeber, Numerical and physical aspects of large eddy simulation of turbulent flows, MECH, 1987.09.08, *prof.dr.ir. G. Ooms, prof.ir. J.A. Wesselingh*

1560 Theodorus Hendrikus van der Meer, Heat transfer from impinging flame jets, PHYS, 1987.09.10, *prof.ir. C.J. Hoogendoorn*

1561 Hendrikus Gerrit Barteld Allersma, Optical analysis of stress and strain in photoelastic particle assemblies, CIVI, 1987.09.10, *prof.dr.ir. A. Verruijt*

1562 Jan van Katwijk, The Ada-compiler. On the design and implementation of an Ada language compiler, INFO, 1987.09.15, *prof.dr.ir. W.L. van der Poel*

1563 Sape Andries Miedema, Berekening van de snijkrachten bij het snijden van volledig met water verzadigd zand. Basistheorie en toepassingen van 3-dimensionale mesbewegingen met periodiek variërende snelheden voor, bij het baggeren gebruikelijke, mijdende ontgravingsmiddelen, MECH, 1987.09.15, *prof.ir. J. de Koning*

1564 Petrus Johannes van der Steen, De katalytische bereiding van cyclohexeen en cyclohexanon, CHEM, 1987.09.17, *prof.dr. J.J.F. Scholten*

1565 Walter Johan Ghijsen, The acousto-electric field analysis of multilayered surface acoustic wave devices, ELEC, 1987.09.17, *prof.dr.ir. P.M. van den Berg*

1566 Kim Wium Olesen, Bed topography in shallow river bends, CIVI, 1987.09.22, *prof.dr.ir. J.P.Th. Kalkwijk*

1567 Erik van der Giessen, Models in nonlinear thermomechanics. Finite element models and constitutive models for large deformation elasto plasticity, MECH, 1987.09.24, cum laude, *prof.dr.ir. J.F. Besseling*

- 1568 Adrianus Joseph Wilibrordus Duijndam**, Detailed Bayesian inversion of seismic data, PHYS, 1987.09.24, cum laude, *prof.dr.ir. A.J. Berkhout*
- 1569 Gerardus Cornelis Hoogendoorn**, Simultaneous desorption of NH_3 , H_2S and CO_2 from aqueous solutions, CHEM, 1987.09.29, *prof.ir. J.A. Wesselingh*
- 1570 Jan Sjoerd Ribberink**, Mathematical modelling of one-dimensional morphological changes in rivers with non-uniform sediment, CIVIL, 1987.10.01, *prof.dr.ir. M. de Vries*
- 1571 Pasqualina Maria Sarro**, Integrated silicon thermopile infrared detectors, ELEC, 1987.10.01, *prof.dr.ir. S. Middelhoek*
- 1572 Cornelis Leonardus Maria van der Klauw**, Vertical charge transport in junction charge-coupled devices, ELEC, 1987.10.06, *prof.dr. M. Kleefstra*
- 1573 Johannes Petrus Ruiter**, Thermal energy storage by means of an absorption cycle, MECH, 1987.10.06, *prof.ir. A.L. Stolk*
- 1574 Antonius Johannes Klein Breteler**, Kinematic optimization of mechanisms. A finite element approach, MECH, 1987.10.13, *prof.Dr.-Ing. H. Rankers*
- 1575 Petrus Gerardus Maria van der Klugt**, Rudder roll stabilization, ELEC, 1987.10.13, *prof.ir. H.R. van Nauta Lemke*, *prof.dr.ir. J. van Amerongen*
- 1576 Arvin Ramachandra Savkoor**, Dry adhesive friction of elastomers; a study of the fundamental mechanical aspects, MECH, 1987.10.15, cum laude, *prof.ir. H.C.A. van Eldik Thieme*, *prof.ir. H. Blok*
- 1577 Alexander Willem van Herwaarden**, Thermal vacuum sensors based on integrated silicon thermopiles, ELEC, 1987.10.15, *prof.dr.ir. S. Middelhoek*
- 1578 Jakob Stefanus van der Meer**, Simulation of a refrigerant evaporator, MECH, 1987.10.27, *prof.ir. A.L. Stolk*
- 1579 Willem Quirinus Stolwijk**, Flexibiliteit in ziekenhuisbouw. Een onderzoek naar de bouwkundige ontwikkelingen van algemene ziekenhuizen in relatie tot in- en externe factoren om te komen tot aanbevelingen voor een optimaal gebruik van ziekenhuiskompleksen, ARCH, 1987.10.27, *prof.ir. P.K.A. Pennink*, *prof.dr. H.A. Tiddens*
- 1580 Lis Karen Nanver**, High-performance bifet process for analog integrated circuits, ELEC, 1987.10.29, *prof.dr.ir. J. Davids*
- 1581 Theo de Jong**, On the calculation of stresses in pin-loaded anisotropic plates, AERO, 1987.11.03, *prof.ir. G.J. Spies*
- 1582 Johan de Vries**, Positron lifetime technique with applications in materials science, MATE, 1987.11.03, *prof.dr. A.H. Wapstra*
- 1583 Lucia Henriëtte Albers**, Het gewichtloze gewogen. Cultuurhistorische betekenis van landgoederen geëvalueerd met behulp van multicriteria analyse, SCGE, 1987.11.05, *prof.dr.ir. C.L. Temminck Groll*
- 1584 Stephanus Petrus Spekreijse**, Multigrid solution of the steady Euler equations, MATH, 1987.11.05, *prof.dr.ir. P. Wesseling*
- 1585 Paul Dokter**, Quinoprotein glucose dehydrogenase and the b-type cytochromes of acinetobacter calcoaceticus L.M.D. 79.41, LIFE, 1987.11.16, *prof.dr.ir. J.A. Duine*

- 1586 Walter Andre Peeters**, The appropriate use of contract types in development contracts. A systems approach with emphasis of the European space sector, ADMI, 1987.11.16, *prof.dr. J. in 't Veld*
- 1587 Warner Rudolph Theophile ten Kate**, The silicon microstrip detector, ELEC, 1987.11.17, *prof.dr.ir. S. Middelhoek*
- 1588 Arne Hoogland**, The Delft Ising system processor. Design, construction and operation of a dedicated processor for Monte Carlo experiments on Ising spin systems, PHYS, 1987.11.26, *prof.ir. B.P.Th. Velthman*
- 1589 Edwin Adriaan Andre van Hartingsveldt**, Interfacial adhesion and mechanical properties of polyamide-6/glass bead composites, MATE, 1987.11.30, *prof.dr.ir. A.K. van der Vegt*
- 1590 Everardus Wilhelmus Bartholomeus de Leer**, Aqueous chlorination products; the origin of organochlorine compounds in drinking and surface waters, LIFE, 1987.11.30, *prof.dr. L. de Galan*
- 1591 Robert Kettler**, Linear multigrid methods for numerical reservoir simulation, MATH, 1987.12.01, *prof.dr.ir. P. Wesseling*
- 1592 Margriet Nip**, Chemical characterization of coals, coal macerals and their precursors; a study by analytical pyrolysis, GEOS, 1987.12.03, *prof.dr. P.A. Schenck*
- 1593 Srdjan Kordic**, Offset reduction and three-dimensional field sensing with magnetotransistors, ELEC, 1987.12.10, *prof.dr.ir. S. Middelhoek*
- 1594 Pauline Pruneti Winkel**, A nineteenth century quarter of Willemstad, Curaçao: historical architecture and its background, ARCH, 1987.12.10, *prof.dr.ir. C.L. Temminck Groll*
- 1595 Frederik Jan van der Gaag**, ZSM-5 type zeolites. Synthesis and use in gasphase reactions with ammonia, CHEM, 1987.12.14, *prof.dr.ir. H. van Bekkum*
- 1596 Marcellus Simon Maria Gemma Vlaming**, Middle ear mechanics studied by laser doppler interferometry, PHYS, 1987.12.15, *prof.dr.ir. F.A. Bilsen, prof.dr. L. Feenstra*
- 1597 Eduard Rudolf Muhring**, Menswaardig onderhoud. In het perspectief van de structuur en de problematiek van samenwerkingsverbanden, SCGE, 1987.12.15, *prof.ir. P.Ch.A. Maloroux, prof.dr. G.G.J. Bos*
- 1598 Cornelis Albertus Timmermans**, Semigroups of operators, approximation and saturation in Banach spaces, MATH, 1987.12.17, *prof.dr. P.P.J.E. Clément*
- 1599 Jurgen Annevelink**, HIFI. A Design method for implementing signal processing algorithms on on VLSI processor arrays, ELEC, 1988.01.05, *prof.dr.ir. P.M. Dewilde*
- 1600 Johannes Willem van der Made**, Analysis of some criteria for design and operation of surface water gauging networks, CIVI, 1988.01.05, *prof.dr.ir. J.C. van Dam*
- 1601 Petrus Johannes van Otterloo**, A contour-oriented approach to digital shape analysis, ELEC, 1988.01.14, *prof.dr.ir. E. Backer*
- 1602 Adrianus Bossche**, Fault tree analysis and synthesis, ELEC, 1988.01.14, *prof.ir. J.L. de Kroes*

1603 Anne Francisca de Baas, Some properties of the Langevin model for dispersion, MECH, 1988.01.19, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr. C.J.E. Schuurmans*

1604 Johannes Stoffels, Automation in high-performance negative feedback amplifier design, ELEC, 1988.01.19, *prof.dr.ir. J. Davidse*

1605 Adrianus Petrus van Ulden, The spreading and mixing of dense gas clouds in still air, MECH, 1988.01.21, *prof.dr.ir. G. Ooms, prof.dr. J. Wieringa*

1606 Lars Bjørset, Selected aspects of discrete-time filtering techniques as applied to sensor control and signal processing problems, ELEC, 1988.01.21, *prof.dr.ir. D.E. Boeke*

1607 Hans Marcel Brand, Synthese en stabiliteit van pyrazol-5-on azomethine kleurstoffen, CHEM, 1988.01.26, *prof.dr.ir. H.C.A. van Beek*

1608 Pieter Maarten van der Made, Determination of macro subsurface models by generalized inversion, PHYS, 1988.01.26, *prof.dr.ir. A.J. Berkhout*

1609 Kornelis Hinderik Drent, Implementation of a flexible link model in a designed robot-system, using the finite element method, MECH, 1988.02.09, *prof.Dr.-Ing. H. Rankers*

1610 Hendrik Nicolaas Slingerland, A fast ion beam pattern generator, PHYS, 1988.02.16, *prof.dr.ir. K.D. van der Mast*

1611 Paul Vincent Bartels, An experimental study of turbulent mixing of visco-elastic fluids, PHYS, 1988.02.23, *prof. M.Sc. J.M. Smith*

1612 Willem van der Wel, A resistance standard based on the quantized hall effect, PHYS, 1988.03.01, *prof.dr.ir. J.E. Mooij*

1613 Rudolf Francois Cornelis Kriens, Quantitative holographic interferometry: measurement of soled object deformations, PHYS, 1988.03.01, *prof.dr.ir. H.J. Frankena*

1614 Guido Hendrikus Sweets, Semilinear elliptic eigenvalue problems, MATH, 1988.03.10, *prof.dr. P.P.J.E. Clément*

1615 Antonius Petrus Julius Sweere, Response of bakers yeast to transient environmental conditions relevant to large-scale fermentation processes, LIFE, 1988.03.10, *prof.dr.ir. N.W.F. Kossen, prof.ir. K.C.A.M. Luyben*

1616 Krishan Ramasamy, A study of the vapour-liquid equilibria of the system ammonia-carbon dioxide-water in relation to the sythesis of urea, CHEM, 1988.03.17, *prof.dr. P.J. van den Berg, prof.dr.ir. J. de Swaan Arons*

1617 Cornelis Johannes Overbeeke, Space through movement. (Theory), IDEE, 1988.03.21, *mv.prof.dr. G.J.F. Smets*

1618 Michael Heinrich Stratmann, Space through movement. (Technology), IDEE, 1988.03.21, *mv.prof.dr. G.J.F. Smets*

1619 Jacob Cornelis Schouten, Sulfur retention and particle motion during fluidized bed combustion of coal, CHEM, 1988.03.24, *cum laude, prof.dr. P.J. van den Berg, prof.ir. C.M. van den Bleek*

1620 Thomas Gerardus Renaldus Maria van Leuken, Data management for VLSI design in an open and distributed environment, ELEC, 1988.03.24, *prof.dr.ir. P.M. Dewilde*

1621 Hans van der Marel, On the 'Great circle reduction' in the data analysis for the astrometric satellite Hipparcos, GEOD. 1988.03.29, cum laude, *prof.dr.-Ing. R. Rummel, prof.dr. W.N. Brouw*

1622 Da-Kang Liu, Non-linear vibrations of imperfect thin-walled cylindrical shells, AERO. 1988.03.31, *prof.dr. J. Arbocz*

1623 Cornelis Theodorus Adriannus Maria de Laat, Strong and electromagnetic interactions in heavy exotic atoms, PHYS. 1988.03.31, *prof.dr. A.H. Wapstra, prof.dr. G. van Middelkoop*

1624 Willem Jan Cornelis Okx, A gas scintillation proportion detector for X-rays, PHYS. 1988.04.05, *prof.dr. A.H. Wapstra*

1625 Ben Jonker, A finite element dynamic analysis of flexible spatial mechanisms and manipulators, MECH. 1988.04.19, cum laude, *prof.dr.ir. J.F. Besseling, prof.ir. O.H. Bosgra*

1626 Jan Jacob de Vlieger, Aspects of the chemistry of hydrogen donor solvent coal liquefaction, CHEM. 1988.04.19, *prof.dr.ir. H. van Bekkum, prof.dr.ir. A.P.G. Kieboom*

1627 Jentsje Wouter van der Meer, Rock slopes and gravel beaches under wave attack, CIVI. 1988.04.26, *prof.dr.ir. E.W. Bijker*

1628 Marcellinus Jacobus Franciscus Strive, Cross-shore flow in waves breaking on a beach, CIVI. 1988.04.26, *prof.dr.ir. J.A. Batjes*

1629 Hannedea C. van Nederveen Meerkerk, Recife. The rise of a 17th-century trade city from a cultural-historical perspective, SCGE. 1988.04.28, *prof.dr.ir. C.L. Temminck Groll*

1630 Leonardus Henricus Josephus Maria Janssen, Reactions of nitrogen oxides in power-plant plumes. Models and measurements, CIVI. 1988.05.17, *prof.dr. M. Donze, prof.dr.ir. F.T.M. Nieuwstadt*

1631 Wilhelm Teunis van Horsen, An asymptotic analysis of a class of nonlinear hyperbolic equations, MATH. 1988.05.17, *prof.dr.ir. J.W. Reyn*

1632 Pieter Gerrit Bakker, Bifurcations in flow patterns, MATH. 1988.05.31, *prof.dr.ir. J.W. Reyn*

1633 Johannes Frank, Pyrroloquinoline quinone. The cofactor of quinoproteins, CHEM. 1988.05.31, *prof.dr.ir. J.A. Duine*

1634 Marco Luigi Frederico Guiseppin, Optimization of methanol oxidase production by *Hansenula polymorpha*. An applied study on physiology and fermentation, LIFE. 1988.06.02, *prof.dr. J.G. Kuenen*

1635 Maarten Dijkstra, Methanol dehydrogenase. A mechanistic study, CHEM. 1988.06.06, *prof.dr.ir. J.A. Duine*

1636 Roelof Marissen, Fatigue crack growth in ARALL. A hybride aluminium-aramid composite material. Crack growth mechanisms and quantitative predictions of the crack growth rates, MATE. 1988.06.06, *prof.dr.ir. J. Schijve*

1637 Johannes Everardus Wicher Wichers, A simulation model for a single point moored tanker, MATH. 1988.06.07, *prof.dr.ir. A.J. Hermans*

1638 Jozef Henricus Duijn, Automation of a quiniar camera for X-ray diffraction, PHYS. 1988.06.07, *prof.dr. A.H. Wapstra*

1639 Wilhelmus Leonardus

Thimotheus Maria Ramselaar, Carbon-supported iron and iron-molybdenum sulfide catalyst. A combined Mössbauer and hydrodesulfurization activity study, PHYS. 1988.06.09, *prof.dr. J.J. van Loef*

1640 Paulus Henricus Maria de Korte,

The influence of the Ni/Al ratio on the properties of coprecipitated Nickel/Alumina catalysts, CHEM. 1988.06.09, *prof.dr.ir. L.L. van Reijen*

1641 Vincent de Valk, One-dependent

processes, MATH. 1988.06.14, *prof.dr. M.S. Keane*

1642 Jacobus Jozef Wilhelmus van der Vegt, A variationally optimized vortex

tracing algorithm for three-dimensional flows around solid bodies, MATH. 1988.06.14, cum laude, *prof.dr.ir. A.J. Hermans*

1643 Adrianus Frans Pruijssers,

Aggregate interlock and dowel action under monotonic and cyclic loading, CIVI. 1988.06.14, *prof.dr.ing. H.W. Reinhardt*, *prof.dr.ir. J.C. Walraven*

1644 Robbert Jacobus Diependaal,

Nonlinear and active cochlear models: analysis and solution methods, MATH. 1988.06.16, *prof.dr.ir. M.A. Viergever*, *prof.dr. E. de Boer*

1645 Adrianus Johannes Jozef

Straathof, Alkyl glycoside surfactants from starch and sucrose: enzymic and chemical approaches, CHEM. 1988.06.16, *prof.dr.ir. A.P.G. Kieboom*, *prof.dr.ir. H. van Bekkum*

1646 Cesares Saiz Jimenez, Origin and

chemical nature of soil organic matter, LIFE. 1988.06.20, *prof.dr. P.A. Schenck*

1647 Hongfei Zhang, Nonlinear

degenerate diffusion problems, MATH. 1988.06.21, *prof.dr. P.P.J.E. Clément*

1648 Jan Jacob Gerbrands,

Segmentation of noisy images, ELEC. 1988.06.21, *prof.ir. I.J. Boxma*

1649 Raphaël Maria van der Weiden,

Boundary integral equations for the computational modeling of three-dimensional steady groundwater flow problems, ELEC. 1988.06.21, *prof.dr.ir. A.T. de Hoop*, *prof.dr.ir. J.C. van Dam*

1650 Martin Anne Maria Greuter,

Personeelsselectie in perspectief, ADMI. 1988.06.23, *prof.dr. R.A. Roe*, *prof.dr. G.J. Mellenbergh*

1651 Sjoerd Pieter Klapwijk,

Eutrophication of surface waters in the Dutch polder landscape, CIVI. 1988.06.23, *prof.dr. M. Donze*

1652 Abraham Jacob Guillaume

Schellingerhout, Advanced electron beam evaporation, PHYS. 1988.09.06, *prof.dr.ir. T.M. Klapwijk*, *prof.dr.ir. J.E. Mooij*

1653 Harm Anjo Dieterman, Dynamics

of towers. Liquid-structure-foundation interaction, CIVI. 1988.09.06, *prof.dr.ir. J. Blaauwendraad*, *prof.dr.ir. J.A. Batjes*

1654 George Laurens Peels, True

amplitude wave field extrapolation with applications in seismic shot record redatuming, PHYS. 1988.09.15, *prof.dr.ir. A.J. Berkhout*

1655 Robert Eppenga, The electronic

and optical properties of GaAs/AlGaAs quantum wells, PHYS. 1988.09.15, *prof.dr.ir. M.F.H. Schuurmans*

1656 Harold Erwin Dijk, On

transformer modelling. A physically based three-phase transformer model for the study of low frequency phenomena in electrical power systems, ELEC. 1988.09.19, *prof.ir. H.B. Boerema*, *prof.dr.ing. W. Deleroi*

1657 Hendrik Martinus Wentinck, Carrier injection in amorphous silicon devices, ELEC, 1988.09.19, *prof.dr. M. Kleefstra*

1658 Roland Henrik Marie van der Leur, Artificial superlattices, PHYS, 1988.09.20, *prof.dr.ir. F. Tuinstra, prof.dr.ir. J.E. Mooij*

1659 Paul Schotanus, A new gamma camera for position emission tomography, PHYS, 1988.09.20, *prof.dr. A.H. Wapstra*

1660 Wim Adriaan Bosch, An automated system for experiments at low and very low temperatures. Application to dynamic specific heat measurements, PHYS, 1988.09.22, *prof.dr. H. Postma*

1661 Jan van de Graaff, Sediment concentration due to wave action, CIVI, 1988.09.22, *prof.dr.ir. E.W. Bijker*

1662 Cornelis Maarten Brakman, On the interpretation of diffraction line-shift measurements. On textured cubic materials, PHYS, 1988.09.26, *prof.dr.ir. S. Radelaar*

1663 Jan Gerrit Rots, Computational modeling of concrete fracture, CIVI, 1988.09.26, *cum laude, prof.dr.ir. J. Blaauwendraad*

1664 Eric Jan Leonardus Koning, Waterflooding under fracturing conditions, CIVI, 1988.09.27, *prof.ir. H.J. de Haan*

1665 Ronald de Goede, Crystallization of paraxylene with scraped surface heat exchangers, CHEM, 1988.09.27, *prof.ir. E.J. de Jong, mw.prof.dr.ir. G.M. van Rosmalen*

1666 Gertrudis Maria Hubertina Suylen, Microbial metabolism of dimethyl sulphide and related compounds, LIFE, 1988.09.27, *prof.dr. J.G. Kuenen*

1667 Jaap Hoekstra, Some models and implementations of digital logic functions using junction charge-coupled devices, ELEC, 1988.10.04, *prof.dr. M. Kleefstra, prof.dr.ir. P.M. Dewilde*

1668 Pieter Maria van der Staal, Toekomstonderzoek en wetenschap over de grondslagen van wetenschappelijke methoden en technieken van toekomstonderzoek, SCGE, 1988.10.04, *prof.dr. F.A. van Vught, prof.dr.ir. W.J. Beek*

1669 Marinus Albertus Gerardus van Kleef, The biosynthesis of the cofactor pyrroloquinoline quinone, LIFE, 1988.10.11, *prof.dr.ir. J.A. Duine*

1670 Joannes Sellmeyer, On the mechanism of piping under impervious structures, CIVI, 1988.10.18, *prof.dr.ir. A. Verruijt*

1671 Piet van Mourik, Ageing of liquid-quenched and solid-quenched aluminium base alloys; analysis of lattice-parameter variations, MATE, 1988.10.18, *prof.dr.ir. B.M. Korevaar, prof.dr.ir. E.J. Mittemeijer*

1672 Rombout Adriaan Swanborn, A new approach to the design of gas-liquid separators for the oil industry, GEOS, 1988.10.25, *prof.ir. E.J. de Jong, prof.dr.ir. J. de Gmauw*

1673 G.E. Schoonenberg, A study of the Ultra-Violet degradation embrittlement of polypropylene polymer, CHEM, 1988.10.25, *prof.ir. J.L. Spoormaker, prof.dr.ir. A.K. van der Vegt*

1674 Menno Jan Kraak, Computer-assisted cartographical three-dimensional imaging techniques, GEOD, 1988.10.27, *prof.dr.ir. M.J.M. Bogaerts, prof.dr. F.J. Ormeling*

1675 Reinoud Felix Wolffenbuttel, Integrated silicon colour sensors, ELEC, 1988.10.27, *prof.dr.ir. S. Middelhoek*

1676 Johannes Michael Peter van der Looy, Dynamic modeling and control of coal fired fluidized bed boilers, ENER, 1988.11.01, *prof.dr. D.G.H. Latsko, prof.ir. O.H. Bosgra*

1677 Adriaan Jan van der Wees, A nonlinear multigrid method for three-dimensional transonic potential flow, MATH, 1988.11.01, *prof.dr.ir. P. Wesseling*

1678 Maarten van Rooyen, Rapidly solidified aluminium alloys. The precipitation behaviour and the mechanical properties after compaction, MATE, 1988.11.03, *prof.dr.ir. B.M. Korevaar, prof.dr.ir. E.J. Mittemeijer*

1679 Floor van der Rhee, Fuzzy modeling and control based on cell structures, ELEC, 1988.11.03, *prof.ir. H.R. van Nauta Lemke, prof.dr. J.G. Dijkman*

1680 Martinus Antonius Hulsen, Analysis and numerical simulation of the flow of viscoelastic fluids, MATH, 1988.11.08, *prof.dr.ir. P. Wesseling*

1681 Cornelis Bil, Development and application of a computer-based system or conceptual aircraft design, AERO, 1988.11.08, *prof.ir. E. Torenbeek*

1682 Lesley Anna Robertson, Aerobic denitrification and heterotrophic nitrification in thiosphaera pantotropha and other bacteria, LIFE, 1988.11.10, *prof.dr. J.G. Kuenen*

1683 Peter Guido de Boer, Enkele Delftse zeventiende eeuwse kerkportretten opnieuw bekeken, HASS, 1988.11.17, *prof. J. van der Does*

1684 Gerrit Hermanus Jansen, Coulomb interactions in particle beams, PHYS, 1988.11.17, cum laude, *prof.dr.ir. K.D. van der Mast, prof.dr. J.M.J. van Leeuwen*

1685 Jacobus Smede Sinnighe Damsté, Organically-bound sulphur in the geosphere; a molecular approach, LIFE, 1988.11.24, cum laude, *prof.dr. P.A. Schenck*

1686 Constantinus Leonardus Jozef Andre Verbraak, A study on orientation-induced crystallization in two-phase polymer melt systems, CHEM, 1988.11.29, *prof.dr.ir. A.K. van der Vegt*

1687 Quingyan Chen, Indoor airflow, air quality and energy consumption of buildings, MECH, 1988.11.29, *prof.ir. R. W.J. Kouffeld, prof.dr.ir. F.T.M. Nieuwstadt*

1688 Lourens Post, Modelling of flow and combustion in a glass melting furnace, PHYS, 1988.12.08, *prof.ir. C.J. Hoogendoorn*

1689 Gerben Heslinga, Technique for human-error-sequence identification and signification, MECH, 1988.12.08, *prof.dr.ir. H.G. Stassen, prof.ir. P. Mostert*

1690 Rudolf Visser, Acoustic measurements on real and synthetic reservoir rock, GEOS, 1988.12.13, *prof.ir. J.J. van der Vuurst de Vries, prof.dr. A.M. Ziolkowski*

1691 Johannes Gustaaf Carl Maria Goossens, Biomarkers in organic geochemistry. On the bacterial contribution to sedimentary organic matter and the formation of pristane in relation to maturity, LIFE, 1988.12.13, *prof.dr. P.A. Schenck*

1692 Cornelis Wilhelmus Notebaart, Applications of mineral characterisation and process research to the development of beneficiation technology for the minerals industry, GEOS, 1988.12.15, *prof.ir. W.P.C. Duyvesteyn*

1693 Henri Lodewijk Fontijn, Fender forces in ship berthing, CIVI, 1988.12.15, *prof.dr.ir. J.P.Th. Kalkwijk*

1694 Erik Floor Hobbel, Cohesion and interparticle forces, CHEM, 1988.12.20, *prof. M.Sc. B. Scarlett*

1695 Francois Dignus Johannes van Schaik, Effectiveness of decision support systems, INFO, 1988.12.20, *prof.dr. H.G. Sol*

1696 K. Jainandunsing, Parallel algorithms for solving systems of linear equations and their mapping on systolic arrays, ELEC, 1989.01.03, *prof.dr.ir. P.M. Dewilde*

1697 Gerard Jan Vroege, Aspects of the equilibrium theory of lyotropic polymer liquid crystals, CHEM, 1989.01.26, *prof.dr. T. Odijk*

1698 Harry Becker, Compact heat and mass exchangers of the plate fin type in thermal sorption system, MECH, 1989.02.07, *prof.ir. A.L. Stolk*

1699 Yizi Xing, An electronic spirit level tilt sensor, CHEM, 1989.02.28, *prof.dr.ir. S. Middelhoek*

1700 Hans Erwin van Dam, Carbon supported noble metal catalysts in the oxidation of glucose 1-phosphate and related alcohols, CHEM, 1989.02.28, *prof.dr.ir. H. van Bekkum*

1701 Zeng Bing Wang, Mathematical modelling of morphological processes in estuaries, CIVI, 1989.03.02, *prof.dr.ir. M. de Vries, prof.dr.ir. C.B. Vreugdenhil*

1702 Maria Elisabeth Catharina Moers, Occurrence and fate of carbohydrates in recent and ancient sediments from different environments of deposition, LIFE, 1989.03.02, *prof.dr. P.A. Schenck*

1703 Johannes Wilhelmus Theodorus Eikenbroek, Development of an integrated AM shortwave upconversion receiver front end, ELEC, 1989.03.07, *prof.dr.ir. J. Davidse*

1704 Timotheus Henricus Johannes Jacobus van der Hagen, Stability monitoring of a natural circulation-cooled boiling water reactor, PHYS, 1989.03.09, *prof.dr.ir. H. van Dam*

1705 Arie Taal, Deeply bound orbits in pionic atoms and the optical potential, PHYS, 1989.03.21, *prof.dr. A.H. Wapstra, prof.dr. G. van Middelkoop*

1706 Robert Arie le Fèvre, High-silica zeolites and their use as catalyst in organic chemistry, CHEM, 1989.03.23, *prof.dr.ir. H. van Bekkum*

1707 Hong Cai, Routing channels in VLSI layout, ELEC, 1989.03.30, *prof.dr.ir. P.M. Dewilde, prof.dr.ir. R.H.J.M. Otten*

1708 Joost Karel Strasters, Multivariate analysis of UV-spectral data for solute tracking in HPLC, CHEM, 1989.04.06, *prof.dr. L. de Galan*

1709 Ronald Cornelis van Oort, Hydrogenated amorphous and microcrystalline silicon deposited from silane-hydrogen mixtures, MATE, 1989.04.11, *prof.dr.ir. B.M. Korevaar, prof.dr. M. Kleefstra*

1710 Johannis Pieter van der Wiel, Continuous recovery of bioproducts by adsorption, LIFE, 1989.04.11, *prof.ir. J.A. Wesselingh*

1711 Jacobus Adrianus Maria Dam, Surface cooled, vacuum impregnated superconducting magnet systems. Design, construction, applications, PHYS, 1989.04.13, *prof.dr. H. Postma*

1712 Karel Pieterman, Surface cooled, vacuum impregnated superconducting magnet systems. Design, construction, applications, PHYS, 1989.04.13, *prof.dr. H. Postma*

1713 Cornelis Johannes Adrianus Jansen, Investigations on nonlinear streamcipher systems: construction and evaluation methods, ELEC, 1989.04.18, *prof.dr.ir. D.E. Boeke*

1714 Wilhelmus Maria Gerardus Theodorus van den Broek, Aspects of underground disposal of radioactive waste in rock salt, PHYS, 1989.04.20, *prof.dr.ir. J. Hagoort*

1715 Zhen-Qiu Ning, Accurate and efficient modeling of global circuit behaviour in VLSI layouts, ELEC, 1989.04.20, *prof.dr.ir. P.M. Dewilde*

1716 Robertus Martinus Stikkelman, Gas and liquid maldistributions in packed columns, CHEM, 1989.04.27, *prof.ir. J.A. Wesseling*, *prof.dr.ir. J. de Graauw*

1717 Wuyian Lian, Integrated silicon flip-flop sensors, ELEC, 1989.04.27, *prof.dr.ir. S. Middelhoek*

1718 Ernst Jaap Oscar Schrama, The role of orbit errors in processing of satellite altimeter data, GEOD, 1989.05.02, *prof.Dr.-Ing. R. Rummel*, *prof.ir. K.F. Wakker*

1719 Guido Jozef Maria Beaten, Theoretical and practical aspects of the Vibroseis method, GEOS, 1989.05.11, cum laude, *prof.dr. A.M. Ziolkowski*

1720 Barend Koren, Multigrid and defect correction for the steady Navier-Stokes equations. Application to aerodynamics, MATH, 1989.05.11, *prof.dr.ir. P. Wesseling*

1721 Jacob Arie Jongejan, Chemistry of PQQ, CHEM, 1989.05.18, *prof.dr.ir. J.A. Duine*

1722 Marcel Adrianus Johannes Somers, Internal and external nitriding and nitrocarburizing of iron and iron-based alloys, MATE, 1989.05.18, *prof.dr.ir. B.M. Korevaar*, *prof.dr.ir. E.J. Mittemeijer*

1723 Antonius Gerardus Titus Johannes Heinsbroek, Betonliggers onder stootbelasting. Lineaire en niet-lineaire responsie, CIVI, 1989.05.22, *prof.dr.ir. J. Blaauwendraad*

1724 Adrianus Cornelis Josef Eekhout, Architecture in space structures, ARCH, 1989.05.23, cum laude, *prof.ir. J. Oosterhoff*, *prof.ir. M.E. Zwarts*

1725 Lucretia Agnes Correia, Sintering of a model nickel/alumina catalyst, CHEM, 1989.05.23, *prof.dr.ir. L.L. van Reijen*

1726 Joannes Gerrit Maks, Modulo (1,1) periodicity of Clifford algebras and generalized (anti-) Möbius transformations, MATH, 1989.05.25, *prof.dr.ir. Th.H.M. Smits*

1727 Robert Arthur van der Meer, Methods for the search of quinoproteins, CHEM, 1989.05.25, cum laude, *prof.dr.ir. J.A. Duine*

1728 Paul de Jager, Phase portraits of quadratic systems. Higher order singularities and separatrix cycles, MATH, 1989.05.29, *prof.dr.ir. J.W. Reyn*

1729 Hendrik Willem Marie Hoeymakers, Computational aerodynamics of ordered vortex flows, AERO, 1989.05.30, *prof.dr.ir. J.L. van Ingen*, *prof.dr.ir. P. Wesseling*

1730 Sytze Marten de Vries, Propagation of transient acoustic waves in porous media, ELEC, 1989.05.30, cum laude, *prof.dr.ir. A.T. de Hoop*

1731 Albert Adriaan de Graaf, Development of methods for quantitative in vivo NMR and their application to the study of hepatic encephalopathy in the brain, PHYS, 1989.06.01, *prof.dr.ir. A.F. Mehlkopf*

1732 Christine van der Reijden-Stolk, A study on deformation and break-up of dispersed particles in elongational flow, PHYS, 1989.06.01, *prof.dr.ir. A.K. van der Vegt*

1733 Abraham Johannes Koster, Autoruning of a transmission electron microscope, PHYS, 1989.06.06, *prof.dr.ir. K.D. van der Mast*

1734 Maarten Abraham Mentzel, Bijlmermeer als grensverleggend ideaal. Een studie over Amsterdamse stadsuitbreiding, ARCH, 1989.06.06, *prof.dr. D. de Jonge, prof.dr.ir. H. Priemus*

1735 Evert Frederik Steennis, Water treeing. The behaviour of water trees in extruded cable insulation, ELEC, 1989.06.08, *prof.dr.ir. F.H. Kreuger*

1736 Willem Cornelis van Lier, Mass transfer to activated carbon in aqueous solutions, CHEM, 1989.06.12, *prof.ir. J.A. Wesselingh, prof.dr. A.I. Liapis*

1737 Joannes Theodorus Maria Linders, Synthesis and Diels-Alder reactions of novel morphinandienes, CHEM, 1989.06.12, *prof.dr.ir. A.P.G. Kieboom*

1738 Hendrik van Urk, Transient responses of yeasts to glucose excess, LIFE, 1989.06.13, *prof.dr. J.G. Kuenen*

1739 Jennigje Dankelman, On the dynamics of the coronary circulation, MECH, 1989.06.15, *prof.dr.ir. J.A.E. Spaan, prof.dr.ir. H.G. Stassen*

1740 Theodorus Adriaan Cornelis Maria van der Put, Deformation and damage processes in wood, CIVI, 1989.06.15, *prof.dr.ir. Y.M. de Haan*

1741 Johannes Josephus Antonius Bakker, DFMS: Architecture and implementation of a distributed control system for FMS, MECH, 1989.06.20, *prof.ir. L.N. Reijers*

1742 Nicolaas Antonius Kinneging, Three dimensional redatuming of seismic shot records, PHYS, 1989.06.20, *prof.dr.ir. A.J. Berkhout*

1743 Geert Jan Witkamp, Crystallization of calcium sulfate and uptake of impurities, CHEM, 1989.06.22, *mu.prof.dr.ir. G.M. van Rosmalen*

1744 Mohammed Khalil, Analysis of linear multigrid methods of elliptic differential equations with discontinuous and anisotropic coefficients, MATH, 1989.06.22, *prof.dr.ir. P. Wesseling*

1745 Arjen Peter Kooijman, Numerical model for laterally loaded piles and pile groups, CIVI, 1989.09.05, *prof.dr.ir. A. Verruijt*

1746 Alberto Gandolfi, Clustering and uniqueness in mathematical models of percolation phenomena, MATH, 1989.09.05, *prof.dr. M.S. Keane*

1747 Jeroen Willem Ignatius Jozef Frénaij, Time-dependent shear transfer in cracked reinforced concrete, CIVI, 1989.09.07, *prof.dr.ing. H.W. Reinhardt, prof.dr.ir. J.C. Walraven*

1748 Jan Jacob Meijer, Effects of hydrodynamic and chemical / osmotic stress of plant cells in a stirred bioreactor, LIFE, 1989.09.07, *prof.dr. K.C.A.M. Luyben, prof.dr. K.R. Libbenga*

1749 Michael Bartolomeus Maria van der Ven, A group decision support system or transfer pricing in the pharmaceutical industry, INFO, 1989.09.12, *prof.dr. H.G. Sol*

1750 Ferdinand Peper, Efficient network topologies for extensible massively parallel computers, INFO, 1989.09.18, cum laude, *prof.dr. S.C. van Westrhenen*

1751 Cornelis Alexander Maria Boon, Design of high-performance negative-feedback oscillators, ELEC, 1989.09.19, *prof.dr.ir. J. Davidse*

1752 Michael Cosmas Silvester Zeijlmans, Electromagnetic inverse; profiling of stratified media, ELEC, 1989.09.21, *prof.dr.ir. H. Blok*

1753 Gerrit Blacqui re, 3D wave field extrapolation in seismic depth migration, PHYS, 1989.09.26, *prof.dr.ir. A.J. Berkhout*

1754 Gilles Eliza Houtekamer, Measuring and modelling Disk I/O subsystems, ELEC, 1989.10.02, *prof.ir. G.L. Reijns, prof.dr. J. Wessels*

1755 Bart Jan van Wees, Quantum ballistic and adiabatic elektron transport, studied with quantum point contracts, PHYS, 1989.10.03, cum laude, *prof.dr.ir. J.E. Mooij*

1756 Liang Shi, Vacuum deposition by pulsed laser radiation: plasma composition, deposition techniques and thin film properties, PHYS, 1989.10.17, *prof.dr.ir. H.J. Frankena*

1757 Adriaan van der Schoot, Common reflection point stacking. A macro model driven approach to dip moveout, PHYS, 1989.10.17, *prof.dr.ir. A.J. Berkhout*

1758 Peter Hans Westerink, Subband coding of images, ELEC, 1989.10.26, *prof.dr.ir. D.E. Boeke, prof.dr.ir. J. Biemond*

1759 Egbert Hans Furn e, TV/computer motion analysis systems: The first two decades, PHYS, 1989.10.30, *prof.ir. B.P.Th. Veltman, prof. J.P. Paul*

1760 Hendrik Willem Nelis, Sparse approximations of inverse matrices, ELEC, 1989.10.30, *prof.dr.ir. P.M. Dewilde*

1761 Fransiscus Hendrikus Maria van de Ven, Van neerslag tot rioolloop in vlak gebied, CIVI, 1989.10.31, *prof.dr.ir. H. van Dam*

1762 Michiel Floor, Glycol-cleavage oxidation of polysaccharides and model compounds; calcium complexation of dicorboxy glucans, CHEM, 1989.10.31, *prof.dr.ir. H. van Bekkum, prof.dr.ir. A.P.G. Kieboom*

1763 Luc Dubbeldam, A voltage contrast detector with double channel energy analyzer in a scanning electron microscope, PHYS, 1989.11.02, *prof.dr.ir. K.D. van der Mast*

1764 Hideki Hagiwara, Weather routing of (sail assisted) motor vessels, MARI, 1989.11.07, *prof.dr.ir. J.A.E. Spaan*

1765 Clemens Georges Andreas van der Beek, A symptotic analysis of wind induces vibrations, MATH, 1989.11.09, *prof.dr.ir. J.W. Reyn*

1766 Josephus Johannes Franciscus Maria Schlichting, An early implementation of revised ALGOL 68, INFO, 1989.11.14, *prof.dr.ir. W.L. van der Poel*

1767 Marcellinus Jozef Zeestraten, Scheduling flexible manufacturing systems, MECH, 1989.11.14, *prof.ir. L.N. Reijers*

1768 Richard Cornelis den Dulk, An approach to systematic phase-lock loop design, ELEC, 1989.11.16, *prof.dr.ir. R.H.J.M. Otten*

1769 Joris Marie Joseph Franciscus Houben, Kwaliteitsbeleid voor de Nederlandse woningvoorraad, ARCH, 1989.11.16, *prof.dr.ir. H. Priemus*

1770 Han Haitjema, Spectrally selective tin oxide and indium oxide coatings, PHYS, 1989.11.23, *prof.ir. C.J. Hoogendoorn*

1771 Jacobus Hendrikus Weber, Bounds and constructions for binary block codes correcting asymmetric or unidirectional errors, ELEC, 1989.11.23, *prof.dr.ir. D.E. Boeke, prof.dr. C. de Vroedt*

1772 Maarten Steinbuch, Dynamic modelling and robust control of a wind energy conversion system, MECH, 1989.11.27, *prof.ir. O.H. Bosgra*

1773 Peter Otto Passenier, An adaptive track predictor for ships, ELEC, 1989.11.28, *prof.dr.ir. P.P.J. van den Bosch, prof.dr.ir. J. van Amerongen*

1774 Coenraad Volp, Some aspects of the design and operation of water management systems, CIVI, 1989.11.28, *prof.ir. W.A. Segeren*

1775 Bastiaan Willem Oudheusden, Integrated silicon flow sensors, ELEC, 1989.11.30, *prof.dr.ir. S. Middelhoek, prof.dr.ir. J.L. van Ingen*

1776 Paul Groen, Hydroformulation over heterogenized rhodium complexes, CHEM, 1989.12.07, *prof.dr. J.J.F. Scholten, prof.dr. W. Drenth*

1777 Johannes Cornelis van den Heuvel, Optical properties and transport properties of hydrogenated amorphous silicon, PHYS, 1989.12.11, *prof.dr. M. Kleefstra*

1778 Gezinus van Weert, Chloride and nitrate systems in hydrometallurgy applications and opportunities, CHEM, 1989.12.12, *prof.ir. W.P.C. Duyvesteyn*

1779 Gerardus Johannes Leendert Ouwerling, Nondestructive one- and two-dimensional doping profiling by inverse methode, ELEC, 1989.12.12, cum laude, *prof.dr. M. Kleefstra*

1780 Petrus Wilhelmus Gerard Bots, An environment to support problem solving, INFO, 1989.12.18, cum laude, *prof.dr. H.G. Sol, prof.mr.dr. A.A. Verrijn Stuart*

1781 Rudy Johan van de Plassche, High-speed and high-resolution analog-to-digital and digital-to-analog converters, ELEC, 1989.12.18, *prof.dr.ir. J. Davidse*

1782 Jacobus Hendrik Visser, Surface acoustic wave filters in ZnO-SiO₂-Si layered structures. Design technology and monolithic integration with electronic circuitry, ELEC, 1989.12.19, *prof.dr.ir. S. Middelhoek*

1783 Jaco Versteegh, The numerical simulation of three-dimensional flow through or around hydraulic structures, CIVI, 1990.01.09, *prof.dr.ir. C.B. Vreugdenhil*

1784 Jan Hendrik Gerretsen, Passivation and breakdown of passivity of stainless steel constituents chromium, iron-chromium, iron-chromium-molybdenum, nickel, MATE, 1990.01.18, *prof.dr. J.H. W. de Wit*

1785 Johannes Maria de Laat, Electromagnetic inverse scattering of buried objects, ELEC, 1990.01.18, *prof.dr.ir. H. Blok*

1786 Hendrik Aling, Identification of closed loop systems; identifiability, recursive algorithms and application to a power plant, ENER, 1990.01.23, *prof.ir. O.H. Bosgra*

1787 Erik Postma, Regulation of sugar transport in yeasts; a continuous culture study, LIFE, 1990.01.23, *prof.dr. J.G. Kuenen, prof.dr. W.N. Konings*

1788 Stephan Willem Frederik Marie van Hövell van Weezeveld en Westerflier, Interfacial cadmium exchange in equilibrated aqueous suspensions of cadmium sulphide: a compartmental analysis assisted radiotracer study, CHEM, 1990.01.25, *prof.dr. H.N. Stein, prof.dr.ir. J.J.M. de Goetij*

1789 Ronaldus Henricus Jeanette Maria Plompen, Motion vides coding for visual telephony, ELEC, 1990.01.25, *prof.dr.ir. D.E. Boeke*

1790 Robert Jan van der Linden, Transients in turbulent convective heat transfer to a flow of supercritical helium, PHYS, 1990.01.30, *prof.ir. C.J. Hoogendoorn*

1791 Robertus Bernardus Maria Jaspers, Medical decision support. An approach in the domain of brachial plexus injuries, MECH, 1990.02.01, *prof.dr.ir. H.G. Stassen, prof.dr.ir. E. Backer*

1792 Christiaan Johannes Maria Verhoeven, First order oscillators, ELEC, 1990.02.01, *prof.dr.ir. J. Davids*

1793 Gerard Jacobus Maria Uffink, Analysis of dispersion by the random walk method, CIVI, 1990.02.06, *prof.dr.ir. A. Verruijt*

1794 Joseph Olusola Akinyede, Highway cost modelling and route selection using a geotechnical information system, CIVI, 1990.02.06, *prof. D.G. Price, prof.ir. H.J.Th. Span*

1795 Hendrik Jan Vos, Design of a continuous reactor for immobilized biocatalysts, LIFE, 1990.02.15, *prof.ir. K.C.A.M. Luyben, prof.dr.ir. K.R. Westerterp*

1796 Hendrik Lieuwe Tolman, Wind wave propagation in tidal seas, CIVI, 1990.02.15, *prof.dr.ir. J.A. Battjes*

1797 Gerbrant Philippus van Vledder, Directional response of wind waves to turning winds, CIVI, 1990.02.20, *prof.dr.ir. J.A. Battjes*

1798 Peter Hans Michielse, Parallelism in adaptive multigrid solvers, MATH, 1990.02.22, *prof.dr. H.A. van der Vorst*

1799 Paulus Thomas Maria van Zeijl, Fundamental aspects and design of an FM upconversion receiver front-end with on-chip saw filters, ELEC, 1990.02.27, *prof.dr.ir. J. Davids*

1800 Tom van Zutphen, An avalanche electron emitting diode in gallium arsenide, PHYS, 1990.02.27, *prof.dr.ir. K.D. van der Mast*

1801 Willem Boender, De verspreiding van deeltjes in een turbulente stroming, MECH, 1990.03.01, *prof. M.Sc. B. Scarlett*

1802 Aloysius Johannes Nicolaas Vreenegoor, Macroscopic theory of two-phase bubbly flow, MATH, 1990.03.13, *prof.dr. J.A. Geurts*

1803 Alex L.A. Fraay, Fly ash a pozzolan in concrete, CIVI, 1990.03.20, *prof.dr. J.M.J.M. Bijen, prof.dr.ir. Y.M. de Haan*

1804 Walter Martin van Gulik, Growth kinetics of plant cells in suspension culture, LIFE, 1990.03.20, *prof.ir. K.C.A.M. Luyben, prof.dr. K.R. Libbenga*

1805 Hendrik Schut, A variable energy positron beam facility with applications in materials science, PHYS. 1990.03.27, *prof.dr.ir. H. van Dam*

1806 Utama Herawan Padmadinata, Investigation of crack-closure prediction models for fatigue in aluminum alloy sheet under flight-simulation loading, MATE, 1990.03.27, *prof.dr.ir. J. Schijue*

1807 Alfred Jaschinski, On the application of similarity laws to a scaled railway bogie model, MECH. 1990.03.29, *prof.dr.ir. A.D. de Pater*

1808 Xiang Sheng Cheng, Design and implementation of an image understanding system: DADS, ELEC. 1990.03.29, *prof.dr.ir. E. Backer*

1809 Mark Willem Konijnenberg, Exchange currents in the radiative capture of thermal neutrons by protons and deuterons, PHYS. 1990.04.05, *prof.dr. A.H. Wapstra, prof.dr. H. Postma*

1810 Enrique Francisco Kaasschieter, Preconditioned conjugate gradients and mixed-hybrid finite elements for the solution of potential flow problems, MATH. 1990.04.12, *prof.dr. H.A. van der Vorst*

1811 John Anthonius Maria Stoop, Safety and the design process, SCGE. 1990.04.19, *prof.dr. A.R. Hale, prof.ir. J.L. de Kroes*

1812 Adrianus Rigardus Antonius van der Horst, A time-based analysis of road user behaviour in normal and critical encounters, ELEC. 1990.04.24, cum laude, *prof.ir. J.L. de Kroes, prof.dr. J. Moraal*

1813 Reginald Leendert Lagendijk, Iterative identification and restoration of images, ELEC. 1990.04.26, cum laude, *prof.dr.ir. J. Biemond*

1814 Hendrik Paul Lopuhaä, Estimation of location and covariance with high breakdown point, MATH. 1990.04.26, *prof.dr. P.J.M. Rousseeuw*

1815 Frans David Tichelaar, Grain-boundary structure in ordered alloys, MATE. 1990.05.10, *prof.dr.ir. E.J. Mittemeijer*

1816 Cornelis Jacobus Maria Heemskerk, A concept for computer aided process planning for flexible assembly, MECH. 1990.05.17, *prof.ir. L.N. Reijers*

1817 Ello Aart Gijsbert Weits, A stochastic heat equation for freeway traffic flow, MATH. 1990.05.17, *prof.dr. P. Groeneboom*

1818 Jichun Bu, Systematic design of VLSI processor arrays, ELEC. 1990.05.22, *prof.dr.ir. P.M. Dewilde*

1819 Henricus Albertus Petrus Blom, Bayesian estimation for decision-directed stochastic control, MATH. 1990.05.22, *prof.dr. G.J. Olsder, prof.dr. A. Bagehi*

1820 Joseph Maria Frederik Maseland, Bhutan: de traditionele architectuur van een Himalaya koninkrijk (met nadruk op de periode na 1500 AD), ARCH. 1990.05.29, *prof.dr.ir. C.L. Temminck Groll, prof.dr.ir. G. de Josselin de Jong*

1821 Cornelis van der Veen, Cryogenic bond stress-slip relationship, CIVI. 1990.05.29, *prof.dr.ing. H.W. Reinhardt*

1822 Hugo Jakob Kijne, Het gemeten tarief: Taylorisme en de Nederlandse metaalindustrie 1945-1963, HASS. 1990.06.05, *prof.dr.ir. J.C. Walraven*

1823 Rudolphus Aloysius Wijnandus Maria Henkes, Natural-convection boundary layers, PHYS. 1990.06.05, cum laude, *prof.dr. C.J. Hoogendoorn*

1824 Sarah Anna Audet, High-purity silicon soft x-ray sensor arrays, ELEC. 1990.06.07, *prof.dr.ir. S. Middelboek*

1825 Marinus Frederik Stroosnijder, Behaviour and modification of a heat resistant steel in coal gasification environments corrosion, creep and their interaction, MATE. 1990.06.07, *prof.dr. J.H.W. de Wit*

1826 Piet Hein Lodewijk Bovy, Toedeling van verkeer in congestievrije netwerken, CIVI. 1990.06.11, *prof.dr.ir. R. Hamerslag*

1827 Johannes Antonius Maria Remmerswaal, Fatigue of amorphous polymers, MATE. 1990.06.11, *prof.dr.ir. J. Schijve, prof.ir. J.L. Spoormaker*

1828 Alexander Cornelis Geerlings, Adaptive tracking in seismic exploration, PHYS. 1990.06.12, *prof.dr.ir. A.J. Berkhout*

1829 Engelbertus Caspar Maria Pennings, Bends in optical ridge waveguides; modelling and experiments, ELEC. 1990.06.12, *prof.dr. G.A. Acket, prof.dr.ir. H. Blok*

1830 Alan Frank de Jong, Image interpretations for transmission electron microscopy of thin semiconductor layers and interfaces, PHYS. 1990.06.18, *prof.dr.ir. K.D. van der Mast, prof.dr. D. van Dyck*

1831 Willem Frederik Bronsvort, Direct display algorithms for solid modelling, INFO. 1990.06.18, *prof.dr. D.J. McConalogue*

1832 Wouter Theodorus Montfrooij, From visco-elasticity towards thermal relaxation; a neutron scattering study of density fluctuations in fluid helium, PHYS. 1990.06.19, *prof.dr.ir. L.A. de Graaf*

1833 Johan Jager, Control of industrial crystallizers. The physical aspects, CHEM. 1990.06.19, *prof.ir. E.J. de Jong*

1834 Hendrik Johannes Stam, A time-domain finite-element method for the computation of three-dimensional acoustic wave fields in inhomogeneous fluids and solids, ELEC. 1990.06.21, *prof.dr.ir. A.T. de Hoop*

1835 Marco Martens, Interval dynamics, MATH. 1990.06.21, *prof.dr. J.M. Aarts, prof.dr. M.S. Keane*

1836 Willem de Bruijn, The reduction of iron oxides with special reference to the presence of foreign elements, CHEM. 1990.09.04, *prof.dr.ir. R.H. Heerema, prof.ir. W.P.C. Duyvesteyn*

1837 Ronaldus Wilhelmus Jozef Meester, Two models of dependent percolation, MATH. 1990.09.04, *prof.dr. M.S. Keane*

1838 Bernardus Josephus Paulus Maria Huls, Interaction between grinding and flotation, specifically column flotation, and column scale-up, CHEM. 1990.09.06, *prof.ir. W.P.C. Duyvesteyn*

1839 Gerhard Johannes Maria Lörtzer, An integrated approach to lithological inversion, PHYS. 1990.09.06, cum laude, *prof.dr.ir. A.J. Berkhout*

1840 Jeroen van Westrenen, Lanthanide (III) catalyzed O-alkylation of hydroxyl compounds with maleate, CHEM. 1990.09.11, *prof.dr.ir. H. van Bekkum*

1841 Leo Simon Wierda, Cost information tools for designers, IDEE, 1990.09.13, *prof.dr.ir. H. Hermans, prof.Dr.-Ing. G. Warnecke*

1842 Evert van der Heide, Heterogeneous wacker oxidation, CHEM, 1990.09.13, *prof.dr. J.J.F. Scholten*

1843 Alexandros Koutamanis, Development of a computerized handbook of architectural plans, ARCH, 1990.09.18, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*

1844 Johannes Cornelis van Weenen, Waste prevention: theory and practice, LIFE, 1990.09.20, *prof.dr. J. Eekels, prof.dr. D. Huysingh*

1845 Godefridus Theodorus Henricus Sweere, Umbound granular bases for roads, CIVI, 1990.09.20, *prof.ir. H.J.Th. Span, prof. S.F. Brown*

1846 Leendert Hendrik Wesdorp, Liquid-multiple solid phase equilibria in fats; theory and experiments, CHEM, 1990.09.27, cum laude, *prof.dr.ir. J. de Swaan Arons*

1847 Erwin Ronald Komen, Low-level image processing architectures; compared for some non-linear recursive neighbourhood operations, PHYS, 1990.10.09, *prof.dr. I.T. Young*

1848 Robert Jan Rouwenhorst, Production and localization of inulinases in *Kluyveromyces* yeasts, LIFE, 1990.10.09, *prof.dr. J.G. Kuenen*

1849 Menno Dekker, Electrical properties of gas sensor materials, CHEM, 1990.10.11, *prof.dr. J. Schoonman*

1850 Arnoud Christiaan Fortgens, Volkshuisvestingsrecht; een studie naar de juridische grondslagen van de overheidsinterventie, alsmede een analyse van wet- en regelgeving op het gebied van volkshuisvesting, ARCH, 1990.10.16, *prof.dr.ir. H. Priemus, prof.mr. P. de Haan*

1851 Carel Antonius Adriaansens, Volkshuisvestingsrecht; een studie naar de juridische grondslagen van de overheidsinterventie, alsmede een analyse van wet- en regelgeving op het gebied van volkshuisvesting, ARCH, 1990.10.16, *prof.dr.ir. H. Priemus, prof.mr. P. de Haan*

1852 Cheng Liu, Phase transformations in iron-based interstitial martensites, MATE, 1990.10.25, *prof.dr.ir. E.J. Mittemeijer, prof.dr. J. Korevaar*

1853 Jose Luis Estrada Haen, Gas entrapment and evolution in aluminium alloys produced by powder metallurgy, MATE, 1990.10.25, *prof.dr. J. Korevaar*

1854 Johannes Petrus Zijp, Heat transport during gas tungsten arc welding, MATE, 1990.10.29, *prof.dr. G. den Ouden*

1855 Christine Maria Hooijmans, Diffusion coupled with bioconversion in immobilized systems; use of an oxygen microsensor, LIFE, 1990.10.30, *prof.ir. K.C.A.M. Luyben*

1856 Nicolaius Henricus Gerardus Baken, Computational modeling of integrated-optical waveguides, ELEC, 1990.10.30, *prof.dr.ir. H. Blok*

1857 Johannes Augustinus Leonardus Dobbelaar, The use of impedance measurements in corrosion research. The corrosion behaviour of chromium and iron chromium alloys, MATE, 1990.11.01, *prof.dr. J.H.W. de Wit*

1858 Christophorus Carolus Franciscus Thijssen, Technische kwaliteit van etagewoningen. Bouwconstructieve analyse van naoorlogse meergezinshuizen in de non-profit huursector 1966-1980, ARCH, 1990.11.01, *prof.dr.ir. H. Priemus*

1859 Clemens Maria Steenberghe, De stap over de horizon. Een ontleding van het formele ontwerp in de landschapsarchitectuur, ARCH, 1990.11.06, *prof.dr.ir. F.M. Maas, prof. W.C.J. Boer*

1860 Lambert Johan Geerligs, Classical and quantum charge dynamics in small tunnel junctions, PHYS, 1990.11.06, cum laude, *prof.dr.ir. J.E. Mooij*

1861 Dirk Coppieters, An intelligent gaming environment, INFO, 1990.11.12, *prof.dr. H.G. Sol*

1862 Willem Soede, Improvement of speech intelligibility in noise; development and evaluation of a new directional hearing instrument based on array technology, PHYS, 1990.11.12, *prof.dr.ir. A.J. Berkhout, prof.dr.ir. F.A. Bilsen*

1863 Ruben Manuel Sylvester Maria Schalkes, Frequency analysis of fluids and fluid-structure systems, AERO, 1990.11.13, *prof.dr. A.E.P. Veldman*

1864 Kevin James Knill, Fuel staging and its implementation in a novel internally staged burner, MECH, 1990.11.13, *prof.dr.ing. K.R.G. Hein*

1865 Jacobus Adrianus Cornelis Resing, Asymptotic results in feedback systems, MATH, 1990.11.20, *prof.dr. M.S. Keane*

1866 Jacobus Cornelis Haartsen, Programmable surface acoustic wave detection in silicon. Design of programmable filters, ELEC, 1990.11.20, cum laude, *prof.dr.ir. S. Middelboek*

1867 Aloisius Ronald Marie Soeterboek, Predictive control. A unified approach, ELEC, 1990.11.22, *prof.ir. H.B. Verbruggen, prof.dr.ir. P.P.J. van den Bosch*

1868 Roelof Koekoek, Generalizations of the classical Laguerre polynomials and some q-analogues, MATH, 1990.11.22, *prof.dr. H.G. Meijer*

1869 Jaap van der Plas, Synchronous detection in monolithically integrated AM upconversion receivers, ELEC, 1990.11.26, *prof.dr.ir. J. Davidse*

1870 Martinus Johannes Gerardus Marinus van Emmerik, Interactive design of parameterized 3D models by direct manipulation, IDEE, 1990.11.26, *prof.dr.ir. F.W. Jansen, prof.dr. D.J. McConlogue*

1871 Hans Butler, Model reference adaptive control. Bridging the gap between theory and practice, ELEC, 1990.11.27, *prof.ir. G. Honderd, prof.dr.ir. J. van Amerongen*

1872 Sjoerd de Wolf, Modelling, system identification and control of an evaporative continuous crystallizer, MECH, 1990.11.27, *prof.ir. O.H. Bosgra*

1873 Lulof Boelens, Stedebouw en planologie - een onvoltooid project. Naar het communicatief handelen in de ruimtelijke planning en ontwerppraktijk, ARCH, 1990.12.04, *mw.prof.dr. F. Bollerey, prof.dr. A.M.J. Kreukels*

1874 Theodorus Ludovicus Michael Maesen, Activation and characterization of some molecular sieve catalysts, CHEM, 1990.12.04, *prof.dr.ir. H. van Bekkum*

1875 Jan Johannes Wybe Westra, Development of an advanced absorption heat transformer, MECH, 1990.12.06, *prof.ir. A.L. Stolk*

1876 Er-Xiang Song, Elasto-plastic consolidation under steady and cyclic loads, CIVI, 1990.12.06, *prof.dr.ir. A. Verruijt*

1877 Diederik Michiel Boersma, Nitrogen flooding versus methane flooding in volatile oil reservoirs, GEOS, 1990.12.10, *prof.dr.ir. J. Hagoort*

1878 Cornelis René Braam, Control of crack width in deep reinforced concrete beams, CIVI, 1990.12.10, *prof.dr.ir. J.C. Walraven*

1879 Willem Gerrit Monhemius, Profiles in management, ADMI, 1990.12.13, *prof.dr. G.G.J. Bos, prof.ir. P.Ch.A. Malotaux*

1880 Marcus Antonius Hollanders, Amorphization by interdiffusion in metallic multilayers, MATE, 1990.12.13, *prof.dr.ir. E.J. Mittemeijer*

1881 Johannes Hellendoorn, Reasoning with fuzzy logic, INFO, 1990.12.18, *prof.dr. S.C. van Westrhenen*

1882 Alexandra Koussalakou, Computer-assisted cartography for monitoring spatio-temporal aspects of urban air pollution, GEOD, 1990.12.18, *prof.dr.ir. M.J.M. Bogaerts, prof.dr.ing. E. Livieratos*

1883 Everard ter Haar, Gebouwkostenkennis. Een analyse van instrumenten voor de vroege planfasen, ARCH, 1991.01.03, *prof.dr.ir. H. Priemus*

1884 Rob Wervelman, Exchange currents in low-energy nucleon capture by ^3He , PHYS, 1991.01.03, *prof.dr. H. Postma, prof.dr. A.H. Wapstra*

1885 Johan Cohen, Modelling van dynamische processen voor drinkwaterdistributie, CIVI, 1991.01.08, *prof.ir. J.H. Kop*

1886 Dong Chen, Bulging of fatigue cracks in a pressurized aircraft fuselage, AERO, 1991.01.08, *prof.dr.ir. J. Schijve*

1887 Reinier Cornelis Adrianus Zandbergen, Satellite altimeter data processing: from theory to practice, AERO, 1991.01.10, *prof.ir. K.F. Wakker, prof.Dr.-Ing. R. Rummel*

1888 Hendrikus Lambertus Hubertus Cox, Estimation of macro velocity models by wave field extrapolation, PHYS, 1991.01.15, *prof.dr.ir. A.J. Berkhout*

1889 Robert Wilhelm Willekers, Heat capacity measurements on some high-temperature superconductors below 1 K by means of two non-adiabatic methods, PHYS, 1991.01.17, *prof.dr. H. Postma*

1890 Leonardus Johannes Theodorus Maria Kempers, Dispersive mixing in stable and unstable miscible displacements, GEOS, 1991.01.17, *prof.dr.ir. J. Hagoort*

1891 Alphonsus Anthonius Jozef de Lange, Design and implementation of highly parallel pipelined VLSI systems, ELEC, 1991.01.24, *prof.dr.ir. P.M. Dewilde*

1892 Bastiaan Marinus Visser, Mathematical modelling of swirling pulverised coal flames, PHYS, 1991.01.24, *prof.ir. C.J. Hoogendoorn*

1893 Adrianus Antonius Maria Maas, Phase shifting speckle interferometry, PHYS, 1991.01.29, *prof.dr.ir. H.J. Frankena*

1894 Petrus Servatius Chrétien Heuberger, On approximate system identification with system based orthonormal functions, MECH, 1991.01.31, *prof.ir. O.H. Bosgra*

1895 Antonie van Baalen, Influence of the water activity on *zymomonas mobilis*, LIFE, 1991.01.31, *prof.ir. K.C.A.M. Luyben*

1896 Wilhelmus Wilhelmina Fransisca Pijnappel, Quantification of 1-D and 2-D magnetic-resonance spectroscopic data, *PHYS*, 1991.02.05, *prof.dr.ir. A.F. Mehlkopf*, *prof.dr. H. Postma*

1897 Louis Gerard van Willigenburg, Digital optimal control of rigid manipulators, *ELEC*, 1991.02.05, *prof.dr. A. Johnson*

1898 Arie Vrijburcht, Forces on ships in a navigation lock induced by stratified flows, *CIVI*, 1991.02.12, *prof.dr.ir. J.P.Th. Kalkwijk*

1899 Jan Pieter de Wilde, Fuel pyrolysis effects on hybrid rocket and solid fuel ramjet combustor performance, *CHEM*, 1991.02.14, *prof.dr. P.J. van den Berg*, *prof.ir. H. Wittenberg*

1900 Rudolphus Johannes Bernardus Peters, Chemical aspects of drinking water chlorination, *CHEM*, 1991.02.14, *prof.dr. L. de Galan*

1901 Nicolaas Roos, What is on the machine's mind? Models for reasoning with incomplete and uncertain knowledge, *INFO*, 1991.02.19, *prof.dr. S.C. van Westrhenen*

1902 Ericus Henricus Petrus Wolff, Regenerative sulfur capture in fluidized bed combustion of coal: a fixed bed sorption study, *CHEM*, 1991.02.28, *prof.dr. P.J. van den Berg*, *prof.ir. C.M. van den Bleek*

1903 Dominicus Richardus Johannes Grootjen, Process alternatives for the fermentation of glucose/xylose mixtures by *Pichia stipitis*, *LIFE*, 1991.03.07, *prof.ir. K.C.A.M. Luyben*

1904 Klaas Jan Koster, A direct layer-stripping approach to the inversion of marine seismic data, *GEOS*, 1991.03.08, *prof.dr. A.M. Ziolkowski*

1905 Harry van Langen, Numerical analysis of soil-structure interaction, *CIVI*, 1991.03.12, *prof.dr.ir. A. Verruijt*

1906 Jacobus Jan Scheele, Electrophilic aromatic acylation, *CHEM*, 1991.03.14, *prof.dr.ir. H. van Bekkum*, *prof.dr.in. A.P.G. Kieboom*

1907 Everard Peter van Emmerik, J.J. van Laar (1860-1938), A mathematical chemist, *CHEM*, 1991.03.21, *prof.dr.ir. J. de Swaan Arons*

1908 Marcus Leonard Horbach, The dynamic nonlinear sigma model of electron localization, *PHYS*, 1991.03.21, *prof.dr. G.B.J. Schön*

1909 Antoni Ellert Duisterwinkel, Clean coal combustion with in situ impregnated sol-gel sorbent, *CHEM*, 1991.03.28, *prof.dr. P.J. van den Berg*, *prof.dr. G. Frens*

1910 Hongwei Wang, Modelling of a refrigerating system coupled with a refrigerated room, *MECH*, 1991.04.09, *prof.ir. A.L. Stolk*

1911 Franciscus Ferdinand van der Vlugt, The implementation and analysis of an algorithm oriented processor for solving the Navier-Stokes equations, *PHYS*, 1991.04.16, *prof.ir. C.J. Hoogendoorn*

1912 Albertus Petrus Leonardus Maria Goossens, An electrochemical study of silicon / Boron phosphide heterojunction photoelectrodes, *CHEM*, 1991.04.16, *prof.dr. J. Schoonman*

1913 Jan Adriaan van Weelderén, MEDESS: a methodology for designing expert support systems, *INFO*, 1991.04.23, *prof.dr. H.G. Sol*

1914 Remko Rosman, Magnetic particles studied with neutron depolarization and small-angle neutron scattering, PHYS, 1991.04.23, cum laude, *prof.dr. J.J. van Loef*

1915 Adriaan Marinus Lankhorst, Laminar and turbulent natural convection in cavities. Numerical modelling and experimental validation, PHYS, 1991.04.25, *prof.ir. C.J. Hoogendoorn*

1916 Joannes Antonie van der Velden, Magnesium and its transport in tilapia and carp. A study based on nuclear methods, LIFE, 1991.04.25, *prof.dr. S.E. Wendelaar Bonga*, *prof.dr.ir. J.J.M. de Goeij*

1917 Guillermo Vasquez de Velasco de la Puente, Low cost housing by means of eucalyptus wood, ARCH, 1991.05.07, *prof.dr.arch. F. Ramos Galino*, *prof.ir. A. Krijgsman*

1918 Paul Albert Motshagen, Treasury management and in-house banking: een informatiekundige analyse, INFO, 1991.05.07, *prof.dr. H.G. Sol*

1919 Marinus Petrus Wilhelminus Maria Rijkers, Retrograde condensation of clean natural gas. Experimental and modelling results for four binary key systems, CHEM, 1991.05.23, *prof.dr.ir. J. de Swaan Arons*

1920 John Willem van Put, Ammonium paratungstate as a raw material for the manufacturing of lamp filament tungsten wire, CHEM, 1991.05.23, *mu.prof.dr.ir. G.M. van Rosmalen*, *prof.ir. W.P.C. Duyvesteyn*

1921 Herman Benedictus Reyer van Wegen, Sociale veiligheid en gebouwde omgeving. Theorie, empirie en instrumentontwikkeling, ARCH, 1991.05.27, *prof.dr.ir. H. Priemus*

1922 Doretheus Johannes Maria van der Voordt, Sociale veiligheid en gebouwde omgeving. Theorie, empirie en instrumentontwikkeling, ARCH, 1991.05.27, *prof.dr.ir. H. Priemus*

1923 Afra Maria Cunegondis van Rijn, Natural language communication between man and machine, INFO, 1991.05.28, *prof.dr. S.C. van Westrhenen*

1924 André Barnier de Haan, Supercritical fluid extraction of liquid hydrocarbon mixtures, CHEM, 1991.05.28, *prof.dr.ir. J. de Graauw*

1925 Arno Jan Bleeker, Optical and mechanical design for 1 mm resolution. Auger spectroscopy in an electron microscope, PHYS, 1991.06.03, *prof.dr.ir. P. Kruit*, *prof.dr.ir. K.D. van der Mast*

1926 Gijsbert Marinus Pronk, The shoulder girdle, analysed and modelled kinematically, MECH, 1991.06.03, *prof.dr.ir. H.G. Stassen*, *prof.dr. R.H. Rozendal*

1927 Johannes Hendrikus ter Bekke, Semantic data modelling in relational environments, INFO, 1991.06.04, *prof.dr. H.G. Sol*

1928 Patrick Robbert Groeneveld, Context-driven channel routing, ELEC, 1991.06.06, *prof.dr.ir. R.H.J.M. Otten*

1929 Robbert Johan Fokkink, The structure of trajectories, MATH, 1991.06.06, *prof.dr. J.M. Aarts*

1930 Johannes Romijn, Metallic structures with reduced dimensions, PHYS, 1991.06.10, *prof.dr.ir. J.E. Mooij*, *prof.dr.ir. S. Radelaar*

1931 Johannes Antonius Maria

Teunissen, Analysis of plasticity and non-coaxiality in geomaterials, CIVI, 1991.06.10, *prof.dr.ir. A. Verruijt*

1932 Gerhardus Wilhelmus Koebrugge,

On the kinetics of structural relaxation in some metallic glasses, MATE, 1991.06.10, *prof.dr.ir. A. van den Beukel*

1933 Henri Michel Böhms, Reference

models for industrial automation, INFO, 1991.06.11, *prof.dr. H.G. Sol*

1934 Eduard Willibrordus Johannes

van Niel, Nitrification by heterotrophic denitrifiers and its relationship to autotrophic nitrification, LIFE, 1991.06.11, *prof.dr. J.G. Kuenen*

1935 Elvira Hendrika Mulder, On the throughput optimization of electron beam lithography systems, PHYS, 1991.06.13,

prof.dr.ir. K.D. van der Mast, prof.dr.ir. P. Kruit

1936 Bernard Johanna Hendrikus

Verwer, Distance transforms, metrics, algorithms and applications, PHYS, 1991.06.13, *prof.dr. I.T. Young*

1937 Adrianus Petrus Maria

Zwamborn, Scattering by objects with electric contrast, ELEC, 1991.06.17, cum laude, *prof.dr.ir. P.M. van den Berg*

1938 Folkert Wiebren Wierda,

Developing of interorganizational information systems, INFO, 1991.06.17, cum laude, *prof.dr. H.G. Sol*

1939 Lilla Böröczky, Pel-recursive

motion estimation for image coding, ELEC, 1991.06.18, *prof.dr.ir. J. Biemond, prof. K. Fazekas*

1940 Rene Henri Kleijntjens,

Biotechnological slurry process for the decontamination of excavated polluted soils, LIFE, 1991.06.18, *prof.ir. K.C.A.M. Luyben, prof.dr.ir. A.A.C.M. Beenackers*

1941 Meint Koert Smit, Integrated

optics in silicon-based aluminum oxide, ELEC, 1991.06.18, cum laude, *prof.dr. G.A. Acket*

1942 Joseph Aduamaah Larbi, The

cement paste-aggregate interfacial zone in concrete, CIVI, 1991.09.03, *prof.dr. J.M.J.M. Bijen*

1943 Ikbal Sevil Özariyildiz,

Conceptual design by means of islamic-geometric-patterns within a caad-environment, ARCH, 1991.09.03, cum laude, *prof.dr.ir. P. van der Veer*

1944 André Zegeling, Limit cycles in

quadratic systems, MATH, 1991.09.05, *prof.dr.ir. J.W. Reyn*

1945 Gerardus Maria Wijers, Modelling

support in information systems development, INFO, 1991.09.05, cum laude, *prof.dr. H.G. Sol*

1946 Hendrik Jacob Zantkuijl,

Tweehonderd vijftig jaar bouwen in Amsterdam (1690-1940), ARCH, 1991.09.05, *prof.dr.ir. F.W. van Voorden, prof.dr.ir. R. Meischke*

1947 Geert Moek, Some aerospace

applications of estimation theory, MATH, 1991.09.10, *prof.dr. G.J. Olsder*

1948 Gerardus Antonius Maria

Vijverberg, Planning van bouwkundig onderhoud aan schoolgebouwen; oriëntering - modellering - institutionalisering, ARCH, 1991.09.10, *prof.dr.ir. H. Priemus*

1949 Cornelis van Reeuwijk, The implementation of a system description language and its semantic functions, ELEC, 1991.09.10, *prof.dr.ir. J. Davidse, prof.dr.ir. R. Boute*

1950 Hendrik Antonius Vrooman, Quaint: quantitative analysis of interferograms, PHYS, 1991.09.16, *prof.dr. I.T. Young*

1951 Herre Sjoerd Jan van der Zant, Vortex dynamics in artificially fabricated superconducting networks, PHYS, 1991.09.16, *prof.dr.ir. J.E. Mooij*

1952 Maria Johanna Wilhelmina Stokmans, The relative importance of product attributes: consumer decision theories in new-product development, SCGE, 1991.09.17, *prof.dr. W.M. Oppedijk van Veen, prof.dr. W.F. van Raaij*

1953 Cornelis Christoffel Johannes Verlaan, Performance of novel mist eliminators, CHEM, 1991.09.17, *prof.dr.ir. J. de Graauw*

1954 Franciscus Maria Geenen, Characterisation of organic coatings with impedance measurements, MATE, 1991.09.23, *prof.dr. J.H.W. de Wit*

1955 Patrick Voogd, Effect of crystal size on physical and catalytic properties of ZSM-5 type zeolites, CHEM, 1991.09.30, *prof.dr.ir. H. van Bekkum*

1956 Johannes Marinus Versendaal, Separation of the user interface and application, INFO, 1991.10.01, *prof.ir. D.H. Wolbers, prof.dr. H.G. Sol*

1957 Leendert Combee, Transient diffusive electromagnetic fields in layered anisotropic media, ELEC, 1991.10.01, cum laude, *prof.dr.ir. A.T. de Hoop*

1958 Arie Johannes van Genderen, Reduced models for the behavior of VLSI circuits, ELEC, 1991.10.03, *prof.dr.ir. P.M. Dewilde*

1959 Albert Manenschijn, Ion bombardment and ion-assisted etching in rf discharges, PHYS, 1991.10.03, *prof.dr.ir. S. Radelaar*

1960 Johannes Edwinus van Dijk, In-Vivo proton magnetic resonance spectroscopy: evaluation of multiple quantum techniques for spectral editing and a time domain fitting procedure for quantification, PHYS, 1991.10.07, *prof.dr.ir. A.F. Mehlkopf*

1961 Arie Vlot, Low-velocity impact loading on fibre reinforced aluminium laminates (ARALL) and other aircraft shear materials, MATE, 1991.10.07, cum laude, *prof.dr.ir. J. Schijue*

1962 Edward Gulski, Computer-aided recognition of partial discharges using statistical tools, ELEC, 1991.10.14, *prof.dr.ir. F.H. Kreuger*

1963 Frans Christiaan Jacobus Mijnsen, Characterization of deltaic rocks for numerical reservoir simulation, GEOS, 1991.10.14, *prof.ir. K.J. Weber*

1964 Anne Elisabeth Baayens, CAD product data exchange; conversions for curves and surfaces, INFO, 1991.10.15, *prof.dr. H. Nowachi, prof.dr. D.J. McConalogue*

1965 Jacobus Thomas Pronk, Physiology of the acidophilic thiobacilli, LIFE, 1991.10.15, *prof.dr. J.G. Kuenen*

1966 Wytze Schuurmans, A model to study the hydraulic performance of controlled irrigation canals, CIVI, 1991.10.15, *prof.ir. R. Brouwer*

1967 Marcus Adrianus Schwegler, Heteropolyacids as catalysts in organic reactions, CHEM, 1991.10.21, *prof.dr.ir. H. van Bekkum*

1968 Cornelius Laurentius Sassen, The influence of pressure on the phase behaviour of water + oil + surfactant systems, CHEM, 1991.10.22, *prof.dr.ir. J. de Swaan Arons*

1969 Jacobus van Haveren, Borate esters and metal-ion coordination of n-containing carbohydrate derivatives, CHEM, 1991.10.22, *prof.dr.ir. H. van Bekkum*

1970 Jianrong Gao, Quantum interference and confinements effects in narrow channel Si-Mosfer's, PHYS, 1991.10.24, *prof.dr.ir. S. Radelaar*

1971 Marius Hendrik Vogel, Electromagnetic scattering by a moving object. Theory and experiment, ELEC, 1991.10.28, *prof.dr.ir. P.M. van den Berg*

1972 Jacob Philippus Meijaard, Dynamics of mechanical systems. Algorithms for a numerical investigation of the behaviour of non-linear discrete models, MECH, 1991.10.28, *prof.dr.ir. J.F. Besseling*

1973 Jie Zhou, Extrusion of Al-Si-X alloys prepared from rapidly solidified powders, MATE, 1991.10.29, *prof.dr.ir. B.M. Korevaar*

1974 Dirk Arend Hordijk, Local approach to fatigue of concrete, CIVI, 1991.10.29, cum laude, *prof.dr.ing. H.W. Reinhardt*

1975 Ping Liu, Dynamics of elevated jack-up structures, CIVI, 1991.10.31, *prof.ir. J.G. Wolters, prof.dr.ir. J. Blaauwendraad*

1976 Petrus Antonius Johannes van den Bogert, Computational modelling of rubberlike materials, CIVI, 1991.10.31, *prof.dr.ir. R. de Borst, prof.dr.ir. J. Blaauwendraad*

1977 Franciscus Cornelis Theodorus van der Helm, The shoulder mechanism. A dynamic approach, MECH, 1991.11.05, cum laude, *prof.dr.ir. H.G. Stassen, prof.dr. R.H. Rozendal*

1978 Robertus Antonius Bauer, Laser chemical vapor precipitation of ceramic powders, CHEM, 1991.11.05, *prof.dr. J. Schoonman, prof. M.Sc. B. Scarlett*

1979 Aike Wypke Wypkema, Selective removal of NO_x from gas engine off-gases to utilize their CO₂ content for crop growth stimulation, CHEM, 1991.11.05, *prof.dr. P.J. van den Berg, prof.ir. C.M. van den Bleek*

1980 Ricardo Weewer, Study of electrochemical processes and wetting phenomena at the molten carbonate fuel cell anode, MATE, 1991.11.07, *prof.dr. J.H.W. de Wit*

1981 Robert Christiaan Makkus, Electrochemical studies on the oxygen reduction and NiO(Li) dissolution in molten carbonate fuel cells, MATE, 1991.11.07, *prof.dr. J.H.W. de Wit*

1982 Peter André van Manen, The mechanism of the oxidation of nickel-aluminium coating alloys, MATE, 1991.11.18, *prof.dr. J.H.W. de Wit*

1983 Maarten Jeroen Fonderie, Design of low-voltage bipolar operational amplifiers, ELEC, 1991.11.18, *prof.dr.ir. J.H. Huijsing*

1984 Klaas van Breugel, Simulation of hydration and formation of structure in hardening cement-based materials, CIVI, 1991.11.18, *prof.dr. J.M.J.M. Bijen, prof.Dr.-Ing. F.H. Wittmann*

1985 Hindrik de Swaan Arons, Delft: design, development and applicability of expert system shells, INFO, 1991.11.21, *prof.dr. H. Koppelaar*

1986 Alexander Verbraeck, Developing an adaptive scheduling support environment, INFO, 1991.11.21, *prof.dr. H.G. Sol*

1987 Peter Vinke, Oxidation of carbohydrates and derivatives using carbon supported noble metal catalysts, CHEM, 1991.11.21, *prof.dr.ir. H. van Bekkum*

1988 Jacques Frederik Gerrissen, On the emulation of the human visual search, HDEF, 1991.11.25, *prof.dr.ir. R. den Buurman, prof.dr.ir. E. Backer*

1989 Franciscus Josef Theodorus Floris, Two-phase flow of newtonian and non-newtonian fluids in a porous medium applied to water coning, MATH, 1991.11.25, *prof.dr.ir. C.J. van Duijn, prof.ir. H.J. de Haan*

1990 Ningling Rao, Solid electrolyte and semiconductor SO₂ and NO_x gas sensors, CHEM, 1991.11.25, *prof.dr. J. Schoonman, prof.ir. C.M. van den Bleek*

1991 Jeanet Kullberg, Stille strijd tegen de scheefheid, ARCH, 1991.11.26, *prof.dr.ir. H. Priemus*

1992 Roelof Simon Renger, Carbon dioxide and its relevance to large-scale brewery fermentation, LIFE, 1991.11.26, *prof.ir. K.C.A.M. Luyben*

1993 Abdul Hai Yousufi, Fabric structures: Trends of fabric structures in architecture, ARCH, 1991.11.28, *prof.ir. J. Brouwer*

1994 Paulus Cornelis den Reijer, Impact on ceramic faced armour, AERO, 1991.11.28, *prof.dr. J. Arbocz*

1995 Hendrik Jan Noorman, Methodology on monitoring and modelling of microbial metabolism, LIFE, 1991.11.28, *prof.ir. K.C.A.M. Luyben, prof.dr.ir. J.J. Heijnen*

1996 Gerardus Hubertus Joannes Joseph Roebroeks, Towards GLARE: the development of a fatigue insensitive and damage tolerant aircraft material, MATE, 1991.12.02, *prof.dr.ir. J. Schijve*

1997 Lodewijk Jacob Jan Offringa, Electronic power converter for a flywheel unit with a synchronous electrical permanent magnet machine, ELEC, 1991.12.02, *prof.dr.ir. J.A. Schot, prof.dr.ing. W. Deleroi*

1998 Reinier Thomas Jacobus Maria van der Heijden, State estimation and error diagnosis for biotechnological processes, LIFE, 1991.12.03, *prof.ir. K.C.A.M. Luyben, prof.ir. G. Hondert*

1999 Dirk Jacob Verschuur, Surface-related multiple elimination, an inversion approach, PHYS, 1991.12.03, cum laude, *prof.dr.ir. A.J. Berkhout*

2000 Dirk Verdoes, Calcium carbonate precipitation in relation to detergent performance, CHEM, 1991.12.09, *mu.prof.dr.ir. G.M. van Rosmalen, prof.dr. D. Kashchiev*

2001 Maria Cornelia van der Leeden, The role of polyelectrolytes in barium sulphate precipitation, CHEM, 1991.12.09, *mu.prof.dr.ir. G.M. van Rosmalen, prof.dr. D. Kashchiev*

2002 Willem Bastiaan Kleijn, Analysis-by-synthesis speech coding based on relaxed waveform-matching constraints, ELEC, 1991.12.12, cum laude, *prof.dr.ir. P.M. Dewilde*

2003 Paul Roos, Reversible compression of medical images, MATH, 1991.12.12, *prof.dr.ir. M.A. Viergever, prof.dr.ir. A.J. Hermans*

2004 Christiaan Rudolf Kleijn, Transport phenomena in chemical vapor deposition reactors, PHYS, 1991.12.16, *prof.ir. C.J. Hoogendoorn*

2005 Gerardus Henricus Otto Daalderop, Magnetic anisotropy from first principles, PHYS, 1991.12.16, *prof.dr.ir. M.F.H. Schuurmans*

2006 Erik Marie Kelder, Kinetics and characterization of CVD-grown BP, CHEM, 1991.12.17, *prof.dr. J. Schoonman*

2007 Jan Frans Tonnis Bos, Man-machine aspects of remotely controlled space manipulators, MECH, 1991.12.17, *prof.dr.ir. H.G. Stassen*

2008 Johan Frans Marie Gerard Linnartz, Effects of fading and interference in narrowband land-mobile networks, ELEC, 1991.12.19, *prof.dr. J.C. Arnbak*

2009 Mathias Elisabeth Leonardus Kohnen, Sulphurised lipids in sediments: the key to reconstruct palaeobio-chemicals and their origin, LIFE, 1991.12.19, *prof.dr. P.A. Schenck*

2010 Martin van Gelder, The geodetic boundary value problem in two dimensions and its iterative solution, GEOD, 1992.01.06, *prof.Dr.-Ing. R. Rummel, prof.dr.ir. P.J.G. Teunissen*

2011 Marianne Vissinga, The Radon transform and its application to the interpretation of seismic data, GEOS, 1992.01.07, *prof.dr. A.M. Ziolkowski*

2012 Bernardus Theodorus Jozef Stoop, Diffusion bonding of silicon nitride to austenitic stainless steel, MATE, 1992.01.07, *prof.dr. G. den Ouden*

2013 René François Swarttouw, The Hahn-Exton q-Bessel function, MATH, 1992.01.09, *prof.dr. H.G. Meijer*

2014 Peter Martens, CAD/CAM for assembly planning, MECH, 1992.01.09, *prof.ir. L.N. Reyers*

2015 Ahmad Dawud Ahmed Harbiye, Passivity and stress corrosion cracking of AISI 316 stainless steel in chloride containing solutions, MATE, 1992.01.13, *prof.dr. J.H.W. de Wit*

2016 Martin Beckmann, Carrier wave signals interfering with lorán-C, ELEC, 1992.01.13, *prof.dr.ir. R.H.J.M. Otten, prof.dr.ir. D. van Willigen*

2017 Jacob Struijk, Catalytic routes to cyclohexene, CHEM, 1992.01.14, *prof.dr. J.J.F. Scholten*

2018 Bastiaan Kastelein, Nuclear electric quadrupole interactions of impurities in graphite, PHYS, 1992.01.14, *prof.dr. H. Postma*

2019 Pieter Leonard Vermeer, The multiscale and wavelet transform with applications in well log analysis, MATH, 1992.01.16, *prof.dr.ir. A.J. Hermans*

2020 Pan Yang, Minority carrier transport in heavily doped silicon, ELEC, 1992.01.16, *prof.dr. M. Kleefstra*

- 2021 Nicolaas Petrus van de Meijs**, Accurate and efficient layout extraction, ELEC, 1992.01.27, *prof.dr.ir. P.M. Dewilde*
- 2022 Paulus Joannes Pius Egberts**, On the sum of accretive operators, MATH, 1992.01.27, *prof.dr. P.P.J.E. Clément*
- 2023 Dirk de Wit**, Oxidation of sucrose and glucose to chiral building blocks, CHEM, 1992.02.04, *prof.dr.ir. A.P.G. Kieboom*
- 2024 Carlo van der Stoep**, A three dimensional method for the calculation of the unsteady ship wave pattern using a Neumann - Kelvin approach, MATH, 1992.02.06, *prof.dr.ir. A.J. Hermans*
- 2025 Frank Willem Jan Hekking**, Aspects of electron transport in semiconductor nanostructures, PHYS, 1992.02.06, *prof.dr. G.B.J. Schöen*
- 2026 Andries Bakker**, Hydrodynamics of stirred gas-liquid dispersions, PHYS, 1992.02.17, *prof.dr.ir. H.E.A. van den Akker*
- 2027 Onno Bram Loopstra**, Amorphous Mo/Si multilayers: interdiffusion and structural relaxation; crystallization, MATE, 1992.02.17, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. S. Radelaar*
- 2028 Shuanhu Li**, Quasilinear evolution problems, MATH, 1992.02.18, *prof.dr. P.P.J.E. Clément, prof.dr.ir. C.J. van Duyn*
- 2029 Johan Cornelis de Haas**, Elastic stratigraphic inversion, an integrated approach, PHYS, 1992.02.18, *prof.dr.ir. A.J. Berkhout*
- 2030 Jian Luo**, Parallel processing for linear programming, ELEC, 1992.02.20, *prof.ir. G.L. Reijns*
- 2031 Pieter Krijgsman**, The hydrothermal synthesis of ceramic powders, MATE, 1992.02.20, *prof.dr. J. Schoonman, prof.dr.ir. J. de Graauw*
- 2032 Hao Gong**, Investigation of III-V superlattices and heterostructures by convergent - beam electron diffraction, MATE, 1992.02.24, *prof.dr.ir. E.J. Mittemeijer*
- 2033 Abolfazl Zandi-nia**, TOPGENE: an artificial intelligence approach to a design process, INFO, 1992.02.25, *prof.dr. H. Koppelaar, prof. A. Tzonis*
- 2034 Maarten Valentijn de Hoop**, Directional decomposition of transient acoustic wave fields, ELEC, 1992.02.27, cum laude, *prof.dr.ir. A.T. de Hoop, prof.dr.ir. P.M. van den Berg*
- 2035 Eduard Schultz**, Waterbeheersing van de Nederlandse droogmakerijen, CIVI, 1992.02.27, *prof.ir. W.A. Segeven*
- 2036 Toofan Otaredian**, Contactless microwave lifetime measurement, ELEC, 1992.03.02, cum laude, *prof.dr.ir. S. Middelboek*
- 2037 Gerrit Groenewold**, Optimal dynamic range integrated continuous-time filters, ELEC, 1992.03.02, cum laude, *prof.dr.ir. J. Davidse*
- 2038 Joost Herman Swarte**, Precision and resolution in spectroscopic model fitting, PHYS, 1992.03.03, *prof.ir. B.P.Th. Veltman*
- 2039 Edward Donovan Hulsbergen**, Positie en ruimte, SCGE, 1992.03.16, *prof.dr. P. Drewe*
- 2040 Theodorus Josephus Gerhardus Thiadens**, Het IT-dilemma: inpassen van ... of herontwerpen met...., INFO, 1992.03.16, *prof.dr. H.G. Sol*

- 2041 Ralton Latoni Nyirenda**, The reduction of zinc-rich ferrites and its implication for a Caron-type process for carbon steelmaking dust, MATE, 1992.03.23, *prof.dr.ir. G. van Weert*
- 2042 Marchel de Waard**, Computer aided conformance checking, INFO, 1992.03.24, *prof.dr. H.G. Sol*
- 2043 Hermanus Everhardus Johannes Berger**, Flow forecasting for the river Meuse, CIVI, 1992.03.24, *prof.dr.ir. J.C. van Dam*
- 2044 Wilhelmus Johannes de Ruiter**, Quantitative high-resolution electron microscopy and holography, PHYS, 1992.03.30, *prof.dr.ir. P. Kruit*
- 2045 Dirk Quak**, Reproduction of digital signals in magnetic recording: a theoretical study, ELEC, 1992.03.30, *prof.dr.ir. A.T. de Hoop*
- 2046 Michal Lenc**, Immersion objective lenses in electron optics, PHYS, 1992.04.01, *prof.dr.ir. P. Kruit*
- 2047 Badi Yousef Al-abad**, Aspects of Arabic Islamic architectural discourse, ARCH, 1992.04.01, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 2048 Richard de Jong**, An adaptive trip planning support environment, INFO, 1992.04.07, *prof.dr. H.G. Sol, prof.dr.ir. R. Hamerslag*
- 2049 Martin Guido Middelhoek**, The identification of analytical device models, ELEC, 1992.04.07, *prof.dr.ir. J. Davids*
- 2050 Jan Middel**, Development of a computer assisted toolbox for aerodynamic design of aircraft at subcritical conditions with application to three-surface and canard aircraft, AERO, 1992.04.13, *prof.ir. E. Torenbeek*
- 2051 Fang Zhu**, Development of capacitive position transducers through a mechatronic approach, MECH, 1992.04.13, *prof.dr.ir. H.F. van Beek*
- 2052 Hubertus Mattheus Appelboom**, Growth and properties of co-evaporated superconducting YBaCuO thin films, PHYS, 1992.04.14, *prof.dr.ir. J.E. Mooij*
- 2053 You Hong Xiao**, Weld pool oscillation during gas tungsten arc welding, MATE, 1992.04.14, *prof.dr. G. den Ouden*
- 2054 Hendrik Verhoogt**, Morphology, properties and stability of thermoplastic polymer blends", CHEM, 1992.04.16, *prof.dr.ir. A. de Posthuma de Boer, prof.dr.ir. A.K. van der Vegt*
- 2055 Kun Liu**, On chain coding of line drawings, ELEC, 1992.05.04, *prof.dr. J.C. Arnbak, prof.dr. R. Prasad*
- 2056 Robert Kozma**, Nuclear reactor noise investigations on boiling effects in a simulated MTR-type fuel assembly, PHYS, 1992.05.04, *prof.dr.ir. H. van Dam*
- 2057 Erik Mosselman**, Mathematical modelling of morphological process in rivers with erodible cohesive banks, CIVI, 1992.05.04, *prof.dr.ir. M. de Vries*
- 2058 Arnold Joost Brand**, The turbulent boundary layer: spanwise structure, evolution of low - velocity regions and response to artificial disturbances, CIVI, 1992.05.11, *prof.dr.ir. F.T.M. Nieuwstadt*

- 2059 Robert Alex Kleywegt**, On sediment transport in circular servers with non-cohesive deposits, CIVI, 1992.05.11, *prof.dr.ir. M. de Vries*
- 2060 Rudolphus Johannes Petrus Schrama**, Approximate identification and control design with application to a mechanical system, MECH, 1992.05.19, cum laude, *prof.ir. O.H. Bosgra*
- 2061 Cornelis Alexander van der Jeugd**, Chemical vapour deposition of tungsten from WF_6/SiH_4 and WF_6/GeH_4 , MATE, 1992.05.19, *prof.dr.ir. S. Radelaar*
- 2062 Peter Westerhuys**, Microscopic dynamics in dense helium-neon mixtures, PHYS, 1992.05.19, *prof.dr.ir. L.A. de Graaf*
- 2063 Jan Simons**, Design considerations for very high speed electron beam writing, PHYS, 1992.05.21, *prof.dr.ir. K.D. van der Mast*
- 2064 Mohamed Buhary Noor-mohamed**, Mixed-mode fracture of concrete: an experimental approach, CIVI, 1992.05.21, *prof.dr.ir. R. de Borst, prof.dr.ing. H.W. Reinhardt*
- 2065 Gabriël Marinus Henricus Meesters**, Mechanisms of droplet formation, CHEM, 1992.06.09, *prof. M.Sc. B. Scarlett*
- 2066 Rudolf Sommerhalder**, A resolution method for some systems of modal logic, INFO, 1992.06.09, *prof.dr. S.C. van Westrhenen*
- 2067 James Christiaan Kuyper**, A calculational study on neutron kinetics and thermodynamics of a gaseous core fission reactor, PHYS, 1992.06.09, *prof.dr.ir. H. van Dam*
- 2068 Edwin Martinus Rudolf Maria Paalvast**, Programming for parallelism and compiling for efficiency, INFO, 1992.06.11, *prof.dr.ir. H.J. Sips, prof.dr.ir. L. Dekker*
- 2069 Menno Wouter Jacob Crajé**, On the identification of 'Co-sulfide' species in sulfided Co and CoMo catalysts, PHYS, 1992.06.11, *prof.dr. J.J. van Loef, prof.dr. J.A.R. van Veen*
- 2070 Liping Ma**, Natural convection around a smooth cylinder and a spiro tube: experiments and calculation, MECH, 1992.06.11, *prof.dr.ir. F.T.M. Nieuwstadt, prof.ir. H. van der Ree*
- 2071 Radmila Tatalovic**, Migration of seismic data in the double Radon transformed domain, GEOS, 1992.06.15, *prof.dr. A.M. Ziolkowski*
- 2072 Marco Jan Starink**, Precipitation phenomena in aluminium - based metal matrix composites: kinetics and misfit accommodation, MATE, 1992.06.15, *prof.dr.ir. B.M. Korevaar*
- 2073 Jacobus Cornelis Jansen**, Zeolite crystal growth and the structure on an atomic scale, CHEM, 1992.06.15, *prof.dr.ir. H. van Beekum*
- 2074 Peter Jan Adriaan Munter**, Spinning-current method for offset reduction in silicon Hall plates, ELEC, 1992.06.16, *prof.dr.ir. S. Middelhoek*
- 2075 Caroline de Graaf**, Quantum transport of electrons in nanostructured silicon MOSFETs, PHYS, 1992.06.16, *prof.dr.ir. S. Radelaar*
- 2076 Erik de Vos Burchart**, Studies on zeolites: molecular mechanics, framework stability, and crystal growth, CHEM, 1992.06.16, *prof.dr.ir. H. van Beekum*

2077 Johan Hendrik Wulder, The implementation of a ship manoeuvring model in an integrated navigation system, MECH, 1992.06.22, *prof.dr.ir. H.G. Stassen, prof.dr.ir. J.A.E. Spaan*

2078 Arnold Martien Talmon, Bed topography of river bends with suspended sediment transport, CIVI, 1992.06.22, *prof.dr.ir. M. de Vries*

2079 Leonardus Petrus Kouwenhoven, Transport of electron-waves and single-charges in semiconductor nanostructures, PHYS, 1992.06.22, cum laude, *prof.dr.ir. J.E. Mooij*

2080 Jan Leendert Kloosterman, On gamma ray shielding and neutron streaming through ducts, PHYS, 1992.06.23, *prof.dr.ir. H. van Dam*

2081 Frederik Elgersma, Integrated hydrometallurgical jarosite treatment, CHEM, 1992.06.23, *mu.prof.dr.ir. G.M. van Rosmalen, prof.ir. W.C. van Reij*

2082 Lambertus Johannes Sluys, Wave propagation, localisation and dispersion in softening solids, CIVI, 1992.06.23, cum laude, *prof.dr.ir. R. de Borst*

2083 Paul Jacques van Wijnen, On the characterization and optimization of high-speed silicon bipolar transistors, ELEC, 1992.06.25, *prof.dr.ir. J. Davidse*

2084 Friso George de Boer, Multivariable servo control of a hydrolic RRR-robot, MECH, 1992.06.25, *prof.ir. O.H. Bosgra*

2085 Peter Hendrik Nelis de With, Data compression techniques for digital video recording, ELEC, 1992.06.25, *prof.dr.ir. E. Backer, prof.dr.ir. J. Biemond*

2086 Philippe Charles Herrmann, Decomposition of multi-component measurements into P and S waves, PHYS, 1992.06.29, *prof.dr.ir. A.J. Berkhout*

2087 Arnoldus Martinus van Wingerden, The fatigue behaviour of T- and X-joints made of square hollow sections, CIVI, 1992.06.29, *prof.dr.ir. J. Wardenier*

2088 Gijsbertus Johannes Christianus Maria Hoffmans, Two-dimensional mathematical modelling of local-scour holes, CIVI, 1992.06.29, *prof.dr.ir. M. de Vries*

2089 Gregory Carlo Haimé, Downward extrapolation of multi-component seismic data, PHYS, 1992.09.01, *prof.dr.ir. A.J. Berkhout*

2090 Magriet Bea Klompstra, Time aspects in games and in optimal control, MATH, 1992.09.01, *prof.dr. G.J. Olsder*

2091 Cornelis Gerardus Maria de Bruin, Linear avo inversion by prestack depth migration. Imaging angle dependent reflectivity as a tool for litho-stratigraphic inversion, PHYS, 1992.09.01, *prof.dr.ir. A.J. Berkhout*

2092 Johan Peter Wakker, Development of a high temperature steam regenerative H₂S removal process based on alumina supported MnO and FeO, CHEM, 1992.09.03, *prof.dr. J.A. Moulijn*

2093 Horacio Raul Picardo, Fundamentals of real-time collision-avoidance path planning for robots. The ghost method, ELEC, 1992.09.03, *prof.ir. G. Honderd, prof.dr.ir. E. Backer*

2094 Arthur Boxman, Particle size measurement for the control of industrial crystallizers, CHEM, 1992.09.03, *prof. M.Sc. B. Scarlett*

2095 Paul Pieter Anton Maria van der Schoot, Light scattering by concentrated solutions of rodlike macromolecules, CHEM, 1992.09.08, *prof.dr. T. Odijk*

2096 Remko Cornelis Johannes Dur, Business re-engineering and information systems development, INFO, 1992.09.08, *prof.dr. H.G. Sol*

2097 Remco Edwin de Vries, On the asymptotic behaviour of discrete event systems, MATH, 1992.09.08, *prof.dr. G.J. Olsder*

2098 Petrus Nicolaas Anna Maria Visser, The use of satellites in gravity field determination and model adjustment, AERO, 1992.09.10, *prof.ir. K.F. Wakker*

2099 Philippus Antonius Maria Holweg, Mesoscopic phenomena in metallic point contacts, PHYS, 1992.09.10, *prof.dr.ir. S. Radelaar*

2100 Johannes Nicolaas Driessen, Motion estimation for digital video, ELEC, 1992.09.10, *prof.dr.ir. J. Biemond*

2101 Adriaan Bout, A finite element approach to nonlinear thin shell analysis, MECH, 1992.09.12, *prof.dr.ir. L.J. Ernst*

2102 Cornelis Verduyn, Energetic aspects of metabolic fluxes in yeasts, LIFE, 1992.09.14, *prof.dr. J.G. Kuenen*

2103 Anke Hendrik Vlagsma, Het 'Hollandse' orgel in de periode van 1670 tot 1730, SCGE, 1992.09.14, *prof.dr.ir. C.L. Temminck Groll*

2104 Johan Gerrit Neevel, The biocetyl-azo dye system: a model system to investigate oxidative dye fading, CHEM, 1992.09.14, *prof.dr.ir. H. van Bekkum*

2105 Edwin Boender, Finite element mesh generation from CSG models, INFO, 1992.09.15, *prof.dr. D.J. McConalogue*

2106 Paul Rudolf van der Weerd, Unified design and implementation of FPA control systems, INFO, 1992.09.15, *prof.dr. D.J. McConalogue, prof.ir. L.N. Reijers*

2107 Dirk den Hertog, Interior point approach to linear, quadratic and convex programming - algorithms and complexity, MATH, 1992.09.15, cum laude, *prof.dr. F.A. Lootsma*

2108 Gerard de Haan, Motion estimation and compensation. An integrated approach to consumer display field rate conversion, ELEC, 1992.09.17, *prof.dr.ir. J. Biemond*

2109 Fokke Ruurd Venema, Coordination of aluminium (III) with hydroxylates in water, CHEM, 1992.09.17, *prof.dr.ir. H. van Bekkum*

2110 Arno Jacob Klaassen, Computing with cables: towards massively parallel neuro computers, INFO, 1992.09.17, *prof.dr.ir. A.J. van de Goor*

2111 Jan Peter Adriaanse, High-Tc superconductors and magnetic electron lenses, PHYS, 1992.10.02, *prof.dr.ir. K.D. van der Mast, prof.dr.ir. J.E. Mooij*

2112 Theodorus Antonius Wilhelmus Maria Lanen, Digital holographic interferometry in compressible flow research, AERO, 1992.10.12, *prof.dr.ir. P.G. Bakker*

2113 Johannes Gerardus Maria Schoenmakers, On excursions of stochastic processes, Cox-point processes, entrance behaviour and resolvents, MATH, 1992.10.12, *prof.dr. C.L. Scheffer*

- 2114 Abraham van Tent**, Turbidity study of the process of film formation of polymer particles in drying thin films of acrylic latices, CHEM, 1992.10.12, *prof.dr.ir. A. de Posthuma de Boer*
- 2115 Arya Ronald**, Aspecten van de bouwcultuur van de traditionel Javaanse woning en zijn architectonische expressie, ARCH, 1992.10.17, *prof.dr.ir. C.L. Temminck Groll*
- 2116 Adrianus Cornelis Maria Dumay**, Image reconstruction from biplane angiographic projections, ELEC, 1992.10.19, *prof.dr.ir. E. Backer*
- 2117 Theodor Wilhelm Schlickmann**, Improving the effectiveness of decision-making using a distributed decision support system, INFO, 1992.10.19, *prof.dr. H.G. Sol*
- 2118 Claes Tore Simon Palmgren**, Oil recovery by steamdrive. An interface approach, GEOS, 1992.10.19, *prof.ir. H.J. de Haan*
- 2119 Peter Jacobus Lute**, The use of predictions in temperature control in buildings. A passive climate system application, MECH, 1992.10.26, *prof.ir. J. Bekker*
- 2120 Alfred Joseph van der Hoeven**, Concepts and implementation of a design system for digital signal processor arrays, ELEC, 1992.10.26, *prof.dr.ir. P.M. Dewilde*
- 2121 Chieh-Wen Wang**, Focusing grating couplers for integrated optics, PHYS, 1992.10.26, *prof.dr.ir. H.J. Frankena*
- 2122 Juergen Silvester Jaeger**, Elastic impact with friction, MATH, 1992.10.30, *prof.dr.ir. J.J. Kalker*
- 2123 Ubaldus Nienhuis**, Analysis of thruster effectivity for dynamic positioning and low speed manoeuvring, MAR, 1992.10.30, *prof.dr.ir. J.D. van Manen*
- 2124 Leonardus Johannes Joseph Maria Janssen**, Encapsulation and membrane formation by interfacial polycondensation, CHEM, 1992.10.30, *prof.dr.ir. A. de Posthuma de Boer*
- 2125 Hendrikus Johannes Maria van Grol**, Traffic assignment problems solved by special purpose hardware with emphasis on real time applications, PHYS, 1992.10.31, *prof.ir. B.P.Th. Veltman, prof.dr.ir. R. Hamerslag*
- 2126 Alfonsus Josefus Marie Nelen**, Optimized control of urban drainage systems, CIVI, 1992.11.03, *prof.ir. W.A. Segeeren*
- 2127 Jakob Weerheijm**, Concrete under impact tensile loading and lateral compression, CIVI, 1992.11.03, *prof.dr.ing. H.W. Reinhardt*
- 2128 Fernando De Almeida Costa Oliveira**, High temperature gaseous corrosion of silicon nitride ceramics, MATE, 1992.11.03, *prof.dr. J.H.W. de Wit*
- 2129 Sietse Engelbrecht Wouters**, Diffusion-based silicon radiation detectors, ELEC, 1992.11.09, *prof.dr.ir. S. Middelhoek*
- 2130 Pieter Leendert Wentzel**, Besturing bouwkundige kwaliteit bij het beheer van schoolgebouwen, ARCH, 1992.11.09, *prof.dr.ir. H. Priemus, prof.ir. H.A.J. Henket*
- 2131 Wouter Wolters**, Influences on the efficiency of irrigation water use, CIVI, 1992.11.09, *prof.ir. R. Brouwer*

2132 Henri Hubertus Cornelis Maria Christiaans, Creativity in design. The role of domain knowledge in designing, MECH, 1992.11.14, *prof.dr. J. Vastenhout, prof.dr.ir. N.G. Cross*

2133 Hendrikus Krijn Boswijk, Complexiteit in evolutionair en organisatorisch perspectief; het zoeken naar balans tussen vermogens en uitdagingen, SCGE, 1992.11.16, *prof.dr. P.Ch.A. Malotiaux*

2134 Zhiwen Chen, Sediment concentration and sediment transport due to action of waves and a current, CIVI, 1992.11.16, *prof.dr.ir. E.W. Bijker*

2135 Johaness Geleijn Bernard, Experimental investigation and numerical modelling of cyclones for application at high temperatures, CHEM, 1992.11.16, *prof. M.Sc. B. Scarlett, prof.dr.ing. K.R.G. Hein*

2136 Hendrik Huisman, Design and control of a class of multiphase series-resonant power converters, MECH, 1992.11.21, *prof.ir. O.H. Bosgra, prof.dr.ir. A.J.A. Vandenput*

2137 Petrus Paulus Jonker, Morphological image processing: architecture and VLSI design, PHYS, 1992.11.28, *prof.dr. I.T. Young*

2138 Pieter Jan Stappers, Scaling the visual consequences of active head movements. A study of active perceivers and spatial technology, IDEE, 1992.11.30, *mv,prof.dr. G.J.F. Smets*

2139 Riender Happee, The control of shoulder muscles during goal directed movements, MECH, 1992.12.01, *prof.dr.ir. H.G. Stassen*

2140 Shaodung Wu, Micro-mechanical structures as optical sensor elements, PHYS, 1992.12.01, *prof.dr.ir. H.J. Frankena*

2141 Adrianus Johannes Oomens, Rioleringsbeheer: het structureren van het beheerproces aan de hand van de voorwaarden voor effectieve besturing, CIVI, 1992.12.01, *prof.ir. H.P.S. van Lohuizen, prof.dr.ir. W.A.H. Thissen*

2142 Hans Adriaan Filius, Defects in nuclear fusion reactor materials studied by thermal gas desorption spectrometry, PHYS, 1992.12.01, *prof.dr.ir. H. van Dam, prof.dr. A. van Veen*

2143 Lukas Frederik Tiemeijer, Optical properties of semiconductors lasers and laser amplifiers for fiber optical communication, ELEC, 1992.12.03, *prof.dr. B.H. Verbeek*

2144 Theodorus Adrianus Rieswijk, Robot trajectory planning. A model based geometrically constrained approach, ELEC, 1992.12.03, *prof.ir. G. Honderd*

2145 Cornelis Adrianus Petrus Zevenhoven, Particle charging and granular bed filtration for high temperature application, CHEM, 1992.12.03, *prof. M.Sc. B. Scarlett, prof.dr.ing. K.R.G. Hein*
māzel

2146 Otakar Mücel, Der Freischwinger. Vom Avantgardenentwurf zur Ware, ARCH, 1992.12.04, *mv,prof.dr. F. Bollerey*

2147 Johannes Cornelis Jacobus Schellekens, Computational strategies for composites structures, CIVI, 1992.12.07, cum laude, *prof.dr.ir. R. de Borst*

2148 Paulus Antonius Maria Steeman, Interfacial phenomena in polymer systems. A dielectric approach, PHYS, 1992.12.07, cum laude, *prof.dr.ir. J. van Turnhout, prof.dr. F.H.J. Maurer*

- 2149 Robert de Ruiter**, Boron containing molecular sieves as catalyst precursors: synthesis, modification and properties, CHEM, 1992.12.07, *prof.dr.ir. H. van Beekun*
- 2150 Freerk van Rijs**, Measurement of minority carrier mobility, carrier lifetime and bandgap narrowing in heavily doped silicon, ELEC, 1992.12.08, *prof.dr. M. Kleefstra*
- 2151 Albert Pieter Allaart**, Design principles for flexible pavements. A computational model for granular bases, CIVI, 1992.12.08, *prof.dr.ir. J. Blaauwendraad, prof.ir. H.J.Th. Span*
- 2152 Ivo Bouwmans**, The blending of liquids in stirred vessels, PHYS, 1992.12.08, *prof.dr.ir. H.E.A. van den Akker*
- 2153 Yunxuan Zhou**, Application of Radon transforms to the processing of airborne geophysical data, GEOS, 1992.12.09, *prof.dr. A.M. Ziolkowski, prof. C.V. Reeves*
- 2154 Hubertus Henricus Gerardus Savenije**, Rapid assessment technique for salt intrusion in alluvial estuaries, CIVI, 1992.12.09, *prof.dr.ir. J.C. van Dam*
- 2155 Bernardus Gerardus Koenraad van Aarssen**, Structural assignment and catagenetic behaviour of macromolecular constituents of recent and fossil natural resins, LIFE, 1992.12.10, *prof.dr. P.A. Schenck*
- 2156 Johannes Cornelis van der Vaart**, Modelling of perception and action in compensatory manual control tasks, AERO, 1992.12.10, *prof.dr.ir. O.H. Gerlach, prof.dr.ir. H.G. Stassen*
- 2157 Vladimir Bubanja**, Quantum fluctuations and coulomb blockade in small tunnel junctions, PHYS, 1992.12.10, *prof.dr. G.B.J. Schöen*
- 2158 Mirosław Lech Kaminski**, Cyclic compression of imperfect steel plates, MECH, 1992.12.12, *prof.ir. J.J.W. Nibbering*
- 2159 Diederik Willem van Batenburg**, Heat and mass transfer during underground gasification of thin deep coal seams, GEOS, 1992.12.14, *prof.ir. H.J. de Haan, prof.ir. C.J. Hoogendoorn*
- 2160 Wierd Koops**, Two new tools and a working method for crises management of accidental spills at sea, CIVI, 1992.12.14, *prof.ir. J.H. Kop, prof.dr. J. Wessels*
- 2161 Herman Walter Johan Russchenberg**, Ground-based remote sensing of precipitation using a multi-polarized FM-CW Doppler, ELEC, 1992.12.14, *prof.dr.ir. L.P. Ligthart*
- 2162 Petrus Johannes van Leeuwen**, Low frequency wave generation due to breaking wind waves, CIVI, 1992.12.15, *prof.dr.ir. J.A. Battjes*
- 2163 Cornelis Joachim Petrus Maria de Bont**, Consumer evaluations of early product-concepts, IDEE, 1992.12.15, *prof.dr. W.M. Oppedijk van Veen*
- 2164 Jan Alders Wieringa**, Spectral radiative heat transfer in gas-fired furnaces, PHYS, 1992.12.15, *prof.ir. C.J. Hoogendoorn*
- 2165 Brigitta Henrica Johanna Heming**, Kwaliteit van arbeid, geautomatiseerd ... Een studie naar kwaliteit van arbeid en de relatie tussen automatisering, arbeid en organisatie, HASS, 1992.12.17, *prof.dr. R.A. Roe*
- 2166 Martin Daniël Verweij**, Transient acoustic waves in continuously layered media, ELEC, 1992.12.17, *prof.dr.ir. P.M. van den Berg*

2167 Wilhelmus Theodorus Maria Caspers, On point interactions, MATH, 1992.12.17, *prof.dr. P.P.J.E. Clément*

2168 Antonius van Pelt, Critical phenomena in binary fluid mixtures. Classification of phase equilibria with the simplified - perturbed - hard - chain theory, CHEM, 1992.12.17, *prof.dr.ir. J. de Swaan Arons*

2169 Wilhelmus Johannes Toetenel, Model oriented specification of communicating agents, INFO, 1992.12.18, *prof.dr.ir. J. van Katwijk*

2170 Fredericus Martinus Meijer, Technisch beheer door eigenaar-bewoners. Ontwikkelingen en perspectieven, ARCH, 1992.12.21, *prof.dr.ir. H. Priemus, prof.dr. F.M. Dieleman*

2171 Philipus Willibrordus Maria Rutten, Diffusion in liquids, CHEM, 1992.12.21, *prof.ir. J.A. Wesselingh, prof.dr.ir. H.E.A. van den Akker*

2172 Eddy Johannes Langendoen, Flow patterns and transport of dissolved matter in tidal harbours, CIVI, 1992.12.21, *prof.dr.ir. J.A. Battjes*

2173 Herbert Johannes Antonius Franciscus Tulleken, Grey - box modelling and identification topics, MATH, 1992.12.21, *prof.dr. G.J. Olsder, prof.ir. H.B. Verbruggen*

2174 Johan Willem Cornelis van der Veen, Separation of the intra- and extracellular ²³Na NMR signals, PHYS, 1992.12.22, *prof.dr.ir. A.F. Mehlkopf*

2175 Jacobus Burghoorn, Time-resolved far-infrared spectroscopy-techniques and applications in semiconductors, PHYS, 1992.12.22, *prof.dr. W.Th. Wenckebach*

2176 Henk de Waard, Physical modelling and adaptive predictive control of diffusion / LPCVD reactors, MATH, 1992.12.22, *prof.dr. G.J. Olsder*

2177 Josephus Cornelis Maria de Bruijn, The failure behaviour of high density polyethylene with an embrittled surface layer due to weathering, MECH, 1992.12.23, *prof.ir. J.L. Spoormaker, prof.dr.ir. J. van Turnhout*

2178 Everhardus Petrus Maria van Westing, Determination of coating performance with impedance measurements, MATE, 1992.12.23, *prof.dr. J.H.W. de Wit*

2179 Matthew Neil Sim, Tool and database interfacing based on virtual objects, ELEC, 1993.01.11, *prof.dr.ir. P.M. Dewilde*

2180 Arie Cornelis Besemer, The bromide-catalyzed hypochlorite oxidation of starch and inulin. Calcium complexation of oxidized fructans, CHEM, 1993.01.18, *prof.dr.ir. H. van Bekkum*

2181 Johannes Paulus Hendrikus Maria Krugers, Joining silicon carbide to austenitic stainless steel through diffusion welding, MATE, 1993.01.19, *prof.dr. G. den Ouden*

2182 Pieter Blom, Turbulent free-surface flow over a sill, CIVI, 1993.01.25, *prof.dr.ir. J.A. Battjes*

2183 Petrus Wilhelmus van Ophem, Enzymes involved in methanol dissimilation in *amycolatopsis methanolica* and some other gram-positive bacteria, LIFE, 1993.01.26, *prof.dr.ir. J.A. Duine*

2184 Alfred van Keulen, On refined triangular plate and shell elements, MECH, 1993.01.26, cum laude, *prof.dr.ir. J.F. Besseling*

- 2185 Jan Tegelaar**, Strategische ruimtelijke sturing. Een Frans-Nederlandse systeemvergelijking, ADMI, 1993.01.26, *prof.dr. J. Wessels*
- 2186 Cornelis Johannes van Westen**, Application of geographic information systems to landslide hazard zonation, GEOS, 1993.02.01, *prof. D.G. Price*
- 2187 Wouter Adri Lotens**, Heat transfer from humans wearing clothing, PHYS, 1993.02.09, *prof.ir. C.J. Hoogendoorn*
- 2188 Matthina Anna Dukes-greup**, Vecht en veste, SCGE, 1993.02.09, *prof.dr.ir. F.W. van Voorden*
- 2189 Pieter Werner Hooijmans**, A unified IF-detection theory for practical coherent optical system design, ELEC, 1993.02.15, cum laude, *prof.dr. J.C. Arnbak*
- 2190 Paulus Laurentius Overbeek**, Towards secure open systems, INFO, 1993.02.15, *prof.dr. I.S. Herschberg*
- 2191 Johannes Hendricus Maria van der Drift**, Architecture of a factory controller, MECH, 1993.02.24, *prof.ir. L.N. Reijers, prof.dr.ir. J.J.M. Evers*
- 2192 Erik Maurits Schooneveld**, Position-sensitive silicon radiation detectors, PHYS, 1993.03.09, *prof.dr.ir. C.W.E. van Eijk*
- 2193 Kaspar Maria Bonaventura Jansen**, Calculation and control of heat transfer in injection moulding, CHEM, 1993.03.15, *prof.dr.ir. A. de Posthuma de Boer*
- 2194 Tao Jing**, Surface charge accumulation in SF_6 , mechanisms and effects, ELEC, 1993.03.15, *prof.dr.ir. F.H. Kreuger*
- 2195 Robert Ernst Kooij**, Limit cycles in polynomial systems, MATH, 1993.03.18, cum laude, *prof.dr.ir. J.W. Reyn*
- 2196 Michiel Kraak**, Automated hierarchical testable design of digital circuits, ELEC, 1993.03.23, *prof.dr.ir. R.H.J.M. Otten*
- 2197 Wilhelmus Hubertus Bastiaan Hoondert**, Trapping and diffusion of noble gas atoms in some off-stoichiometric ceramics studied by thermal desorption spectrometry, MATE, 1993.03.23, *prof.dr.ir. A. van den Beukel*
- 2198 André Verweij**, Three-dimensional analysis of light microscope images. A method for studying cell fate in the mouse embryo, LIFE, 1993.04.05, *prof.dr.ir. E. Backer, prof.dr. S.W. de Laat*
- 2199 Jacob Hendrikus Wesselius**, Software quality control and software requirements specification, INFO, 1993.04.05, *prof.dr.ir. J. van Katwijk*
- 2200 David Johannes Wilhelmus Bierhuizen**, Aspects of robot vision and object verification, ELEC, 1993.04.05, *prof.dr.ir. E. Backer*
- 2201 Jean Paul Pascual Starink**, Analysis of electron microscope images. 3-D localization of immuno-markers, ELEC, 1993.04.06, *prof.dr.ir. E. Backer, prof.dr. A.J. Verkleij*
- 2202 Martin Alfred Salzmann**, Least squares filtering and testing for geodetic navigation applications, GEOD, 1993.04.06, *prof.dr.ir. P.J.G. Teunissen, prof.Dr.-Ing. R. Rummel*
- 2203 Ernst Jan Eijlers**, Scaling and texture, piramids and fractals, ELEC, 1993.04.06, *prof.dr.ir. E. Backer*

2204 Peter Gerardus Josephus van der Wel, Ignition and propagation of dust explosions, CHEM, 1993.04.13, *prof. M.Sc. B. Scarlett*

2205 Guang Yang, Dynamic analysis of railway wheelsets and complete vehicle systems, MECH, 1993.04.20, *prof.dr.ir. P. Meijers*

2206 Rudolf Edward Atman, De faubourg als de middeleeuwse voorloper van de squatter, ARCH, 1993.04.26, *prof.ir. J. van Tol, mvu.prof.dr. F. Bollerey*

2207 Reinier van Kleij, Display of solid models with quadratic surfaces, INFO, 1993.04.26, *prof.dr. D.J. McConalogue, prof.dr.ir. F.W. Jansen*

2208 Anthonius Johannes Hoefnagel, Glyoxylic acid: a key chemical, CHEM, 1993.04.26, *prof.dr.ir. H. van Bekkum*

2209 Eduard Geus, Preparation and characterization of composite inorganic zeolite membranes with molecular sieve properties, CHEM, 1993.04.27, *prof.dr.ir. H. van Bekkum, prof.dr. J. Schoonman*

2210 Arnold Steven Gereard de Vreeze, Woningbouw, kwalitatieve grondslagen. Inspiratie van de sociale woningbouw en ambities in Nederland, ARCH, 1993.04.27, *prof.dr.ir. H. Priemus*

2211 Johannes Marinus Potter, On the binaural modelling of spaciousness in room acoustics, PHYS, 1993.04.27, *prof.dr.ir. F.A. Bilsen*

2212 Peter van Gelderen, Diffusion techniques for in vivo nmr, PHYS, 1993.05.03, *prof.dr.ir. A.F. Mehlkopf, prof.dr.ir. C.T.W. Moonen*

2213 Xian-You Jin, Quasi-three-dimensional numerical modelling of flow and dispersion in shallow water, CIVI, 1993.05.04, *prof.dr.ir. J.A. Battjes*

2214 Frank Einar Kruis, Particle formation in a laser-heated aerosol reactor. Application to silicon and silicon nitride synthesis, CHEM, 1993.05.10, *prof. M.Sc. B. Scarlett, prof.dr. J. Schoonman*

2215 Karel Elbert Kuijk, System aspects of diode-matrix liquid-crystal television display, ELEC, 1993.05.11, *prof.dr.ir. J. Davidse*

2216 Radboud Johannes Jozef Koop, Global gravity-field modelling using satellite gravity gradiometry, GEOD, 1993.05.11, *prof.Dr.-Ing. R. Rummel*

2217 Hendrik Frederik Kaan, Technisch beheer van sociale huurwoningen. Principes, praktijk en perspectieven, ARCH, 1993.05.11, *prof.dr.ir. H. Priemus*

2218 Dirk Petrus Nicolaas Maria Ijpelaar, Beslissingsondersteuning bij het bepalen van een informatiestrategie, ADMI, 1993.05.18, *prof.dr. H.G. Sol, prof.dr. K. Wezeman*

2219 Johannes Aaldert Poulis, Small cylindrical adhesive bonds, MECH, 1993.05.18, *prof.ir. J.C. Cool*

2220 Hendrikus Elisabeth Joseph Gertrudis Schlangen, Experimental and numerical analysis of fracture processes in concrete, CIVI, 1993.05.24, *prof.dr.ir. J.C. Walraven*

2221 Nicolaas Boneschanser, Plan generation for flexible assembly systems, MECH, 1993.05.25, *prof.ir. L.N. Reijers*

- 2222 Alle Jan van der Veen**, Time-varying system theory and computational modeling realization, approximation and factorization, ELEC, 1993.06.01, cum laude, *prof.dr.ir. P.M. Dewilde*
- 2223 Cornelis Jacobus Baljon**, The stucture of architectural theory. A study of some writings by Gottfried Semper, John Ruskin and Chrstoper Alexander, SCGE, 1993.06.01, *prof. M.Sc. S.J. Doorman, prof. A. Tzonis*
- 2224 Haikuan Li**, RITL: an information system for application Reuse-in-the-Large, INFO, 1993.06.07, *prof.dr. H.G. Sol, prof.dr.ir. M. Looijen*
- 2225 Willem Jongkind**, Dextrous gripping in a hazardous environment, ELEC, 1993.06.07, *prof.ir. G. Hondert*
- 2226 Pieter van der Wolf**, Architecture of an open and efficient CAD framework, ELEC, 1993.06.08, *prof.dr.ir. P.M. Dewilde*
- 2227 Charles Frank Stoter**, Modelling of maldistribution in structured packings: from detail to column design, MECH, 1993.06.08, *prof.dr.ir. J. de Graauw*
- 2228 Jan Jacobus Blok**, The resistance increase of a ship in waves, MARI, 1993.06.10, *prof.ir. J. Gerritsma*
- 2229 Gerardus Franciscus Marinus Braat**, Theory and experiments on layered, viscoelastic cylinders in rolling contact, MATH, 1993.06.10, *prof.dr.ir. J.J. Kalker*
- 2230 Bernardus Cornelis Scheffers**, Near-surface seismic imaging, PHYS, 1993.06.15, *prof.dr.ir. A.J. Berkhout*
- 2231 Ad Graafland**, Geo-informatievoorziening in Nederlandse gemeenten, GEOD, 1993.06.15, *prof.dr.ir. M.J.M. Bogaerts, prof.dr.ir. H. Priemus*
- 2232 Maarten Lorenz**, Ultrasonic imaging for the characterization of defects in steel components, PHYS, 1993.06.15, cum laude, *prof.dr.ir. A.J. Berkhout*
- 2233 Sigrun Drescher**, Technologische Anwendung der Partikelformanalyse, CHEM, 1993.06.16, *prof. M.Sc. B. Scarlett*
- 2234 Johan Dirk Jansen**, Nonlinear dynamics of oilwell drillstrings, MECH, 1993.06.16, *prof.dr.ir. P. Meijers*
- 2235 Jan Adriaan Roelvink**, Surf beat and its effect on cross-shore profiles, CIVI, 1993.06.16, *prof.dr.ir. J.A. Battjes*
- 2236 Guo-Qi Zhang**, Stability analysis of anisotropic conical shells, AERO, 1993.06.17, *prof.dr. J. Arbocz*
- 2237 Yves Théodore Jean Claude Fonk**, The Delft Ising Computing Engine, PHYS, 1993.06.17, *prof.ir. B.P.Th. Veltman*
- 2238 Younes Daghigh**, Numerical simulation of dynamic behaviour of an earthdam during seismic loading, CIVI, 1993.06.18, *prof.ir. A.F. van Weele, prof.ir. A.C.W.M. Vrouwenvelder*
- 2239 Johannes Hermannus ter Haar**, Powder metallurgical procesing of fibre reinforced aluminium composites, MATE, 1993.06.25, *prof.dr.ir. B.M. Korevaar*
- 2240 Jerry Westerweel**, Digital particle image velocimetry -Theory and application-, MECH, 1993.06.25, cum laude, *prof.dr.ir. F.T.M. Nieuwstadt*
- 2241 Nan Fang**, A knowledge-based computational approach to architectural precedent analysis, ARCH, 1993.06.28, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*

- 2242 Antonius Henricus Maria Schotman**, The reaction of isocyanates with carboxylic acids and its application to polymer synthesis, CHEM, 1993.06.28, *prof.dr. W.J. Mijs*
- 2243 Theodorus Franciscus Verhoef**, effective information modelling support, INFO, 1993.06.28, *prof.dr. H.G. Sol*
- 2244 Cornelis Lodewijk Koster**, Modelling of NO_x formation in a high temperature gas-fired furnace, PHYS, 1993.06.29, *prof.ir. C.J. Hoogendoorn*
- 2245 Johannes Paulus Maria de Vreught**, Parallel parsing, INFO, 1993.06.29, *prof.dr. S.C. van Westrhenen*
- 2246 Arris Sieno Tijsseling**, Fluid-structure interaction in case of waterhammer with cavitation, CIVI, 1993.06.29, *prof.dr.ir. J.A. Battjes*
- 2247 Cornelia van Daalen**, Validating medical knowledge based systems, MECH, 1993.08.24, *prof.dr.ir. H.G. Stassen, prof.dr.ir. E. Backer*
- 2248 Johanna Maria Annetta Sassen**, Design issues of human operator support systems, MECH, 1993.08.24, *prof.dr.ir. H.G. Stassen, prof.dr. A. Ollongren*
- 2249 Lamberta Petronella Adriana Steenbekkers**, Child development, design implications and accident prevention, IDEE, 1993.08.30, *prof.dr.Eur Ing J.M. Dirken, prof.drs. A.T. Schweizer*
- 2250 Eric van Os**, Packing density of codes, MATH, 1993.08.31, *prof.dr. C. de Vroedt*
- 2251 Christel Alexandra Bakker**, Permeability heterogeneity in cross-bedded sandstones. Impact on water/oil displacement in fluvial reservoirs, GEOS, 1993.09.07, *prof.ir. K.J. Weber*
- 2252 Elisabeth Francisca Maria Jansen**, Pitting corrosion of stainless steels. The role of inclusions and the effect of surface deformation, MATE, 1993.09.07, *prof.dr. J.H.W. de Wit*
- 2253 Richard Herman Woudenberg**, Stereo- and regioselectivity of the Diels-Alder reaction of novel thebaine analogues, LIFE, 1993.09.07, *prof.dr. R.A. Sheldon*
- 2254 Paul Harmen Kenneth de Jong**, Microscopic dynamics and structure of liquid lithium and liquid lithium-based alloys, PHYS, 1993.09.13, *prof.dr.ir. L.A. de Graaf, prof.dr. W. van der Lugt*
- 2255 Hendrik Jan Steetzel**, Cross-shore transport during storm surges, CIVI, 1993.09.13, *prof.dr.ir. E.W. Bijker*
- 2256 Gerrit Rietveld**, Surface spectroscopic studies of high-temperature superconductors, PHYS, 1993.09.13, *prof.dr. D. van der Marel, prof.dr.ir. J.E. Mooij*
- 2257 John Richard Lovell**, Finite element methods in resistivity logging, ELEC, 1993.09.14, *prof.dr.ir. H. Blok*
- 2258 Hans Sierd Pietersen**, Reactivity of fly ash and slag in cement, CIVI, 1993.09.14, *prof.dr. J.M.J.M. Bijen, prof.dr. R.D. Schuiling*
- 2259 Cornelis Willebrordus Oosterlee**, Robust multigrid methods for the steady and unsteady incompressible Navier-Stokes equations in general coordinates, MATH, 1993.09.14, *prof.dr.ir. P. Wesseling*
- 2260 Abdullah Abdul-Aziz Al-salem**, Sediment transport in oscillatory boundary layers under sheet-flow conditions, CIVI, 1993.09.20, *prof.dr.ir. E.W. Bijker*
- 2261 Folbert Jaco Pijper**, Possibilities for coincidence spectroscopy in the scanning transmission electron microscope, PHYS, 1993.09.20, *prof.dr.ir. P. Kruit*

- 2262 Zhenhuan Zou**, The cylindrical bender source in a fluid-filled borehole, GEOS, 1993.09.21, *prof.dr. A.M. Ziolkowski*
- 2263 Nico Plat**, Experiments with formal methods in software engineering, INFO, 1993.09.21, *prof.dr.ir. J. van Katwijk*
- 2264 Eric Paul Jansen**, Improving production schedules without scheduling, INFO, 1993.09.27, *prof.dr. H. Koppelaar, prof.dr. C.B. Besant*
- 2265 Joyce Ellen Sloof**, Environmental lichenology: biomonitoring trace-element air pollution, LIFE, 1993.09.27, *prof.dr.ir. M. de Bruin, prof.dr.ir. J.J.M. de Goeij*
- 2266 Xuejie Huang**, High T_c ceramic superconductors in chemical devices, CHEM, 1993.09.28, *prof.dr. J. Schoonman, prof. L. Chen*
- 2267 Peter Schoen**, Dynamic modeling and control of integrated coal gasification combined cycle units, ENER, 1993.09.28, *prof.ir. D.G.H. Latzka, prof.ir. O.H. Bosgra*
- 2268 Johannes Slotboom**, Selective RF pulses in NMR and their effect on coupled and uncoupled spin systems, PHYS, 1993.10.04, *prof.dr.ir. A.F. Mehlkopf*
- 2269 Antoon Jacob Berend ten Kate**, Process development of thermal hydrodechlorination, CHEM, 1993.10.04, *prof.ir. C.M. van den Bleek, prof.dr. P.J. van den Berg*
- 2270 Fredericus Albertus Veer**, The effects of shear lips, loading transitions and test frequency on constant K and constant load amplitude fatigue tests, MATE, 1993.10.05, *prof.dr.ir. A. Bakker*
- 2271 Lucas Jozef van Vliet**, Gray-scale measurements in multi-dimensional digitized images, PHYS, 1993.10.05, cum laude, *prof.dr. I.T. Young*
- 2272 Diane Joy Chinn**, Revealing hidden defects, CIVI, 1993.10.11, cum laude, *prof.ir. A.C.W.M. Vrouwenfelder*
- 2273 Thomas Maria Pijters**, A study into the mechanism of thermoluminescence in a LiF:Mg,Ti dosimetry material, PHYS, 1993.10.11, *prof.dr.ir. H. van Dam, prof.dr. A. van Veen*
- 2274 Peter Ronald Schrijver**, Supporting fleet management by mobile communications, INFO, 1993.10.11, *prof.dr. H.G. Sol*
- 2275 Robbert Paul van Ingen**, Laser ablation and deposition, MATE, 1993.10.12, *prof.dr.ir. E.J. Mittemeijer, prof.dr. H.H. Brongersma*
- 2276 Hai Xiang Lin**, A methodology for the parallel direct solution of finite element systems, INFO, 1993.10.12, *prof.dr.ir. L. Dekker, prof.dr.ir. H.J. Sips*
- 2277 Li Sheng Shen**, A parallel image rendering algorithm and architecture based on ray tracing and radiosity shading, ELEC, 1993.10.25, *prof.dr.ir. P.M. Dewilde*
- 2278 Paul Godfried Bonnier**, Testing, modelling and numerical analysis of the mechanical behaviour of bituminous concrete, CIVI, 1993.10.25, *prof.dr.ir. A. Verruijt*
- 2279 Patricia Jane Kooyman**, Titanium-silicalite-1 and related systems, CHEM, 1993.10.25, *prof.dr.ir. H. van Bekkum*
- 2280 Maria Isabel Carmona Vásquez**, Balancing growth, poverty and the environment. Utilizing critical planning to adjust land and infrastructure. Illustration from Latin America, ARCH, 1993.10.26, *prof.dr. P. Drewe, prof.Dipl.-Ing. H.J. Rosemann*

2281 Jacobus Antonius Gijsbertus Baggerman, A study on the reaction kinetics in pulsed RF discharges under R.I.E. conditions, PHYS, 1993.10.26, *prof.dr.ir. S. Radelaar*

2282 James Copeland Mullikin, Discrete and continuous methods for three-dimensional image analysis, PHYS, 1993.11.01, *prof.dr. I.T. Young*

2283 Robertus Andreas Gerarda Johannes Streng, Dynamic modelling to assess the value of electronic data interchange, INFO, 1993.11.02, *prof.dr. H.G. Sol*

2284 Caspar Johannes Wilhelmus Petrus Groot, Effects of water on mortar-brick bond, CIVI, 1993.11.08, *prof.dr.ing. H.W. Reinhardt*

2285 Alexander Coenraad Metting van Rijn, The modelling of biopotential recordings and its implications for instrumentation design, MECH, 1993.11.08, *prof.dr.ir. C.A. Grimbergen, prof.dr.ir. J.H. Huijsing*

2286 Adrianus Marinus Hendrikus Meeuwissen, Dependent random variables in uncertainty analysis, MATH, 1993.11.08, *prof.dr. M.S. Keane*

2287 Peter Hendrikus Johan van der Mede, The impact of traffic information. Dynamics in route and departure time choice, CIVI, 1993.11.09, *prof.dr. A.R. Hale, prof.dr.ir. R. Hamerslag*

2288 Eric Cor van Berkum, The impact of traffic information: dynamics in route and departure time choice, CIVI, 1993.11.09, *prof.dr.ir. R. Hamerslag, prof.dr. A.R. Hale*

2289 Agnes Angelien van Zomeren, Thin films of lithium intercalation compounds, CHEM, 1993.11.15, cum laude, *prof.dr. J. Schoonman*

2290 Petrus Henricus Franciscus Morshuis, Partial discharge mechanisms. Mechanisms leading to breakdown, analyzed by fast electrical and optical measurements, ELEC, 1993.11.15, *prof.dr.ir. F.H. Kreuger*

2291 Menno Blaauw, The holistic analysis of gamma-ray spectra in instrumental neutron activation analysis, PHYS, 1993.11.15, *prof.dr.ir. M. de Bruin, prof.dr.ir. W. Lourens*

2292 Ferdinand Rudolf Hendrikus Zijlstra, Efficiency in work behaviour. A design approach for modern tools, IDEE, 1993.11.23, *prof.dr. R.A. Roe, prof.dr. B. Mulder*

2293 Arend Johannes Krijgsman, Artificial intelligence in real-time control, ELEC, 1993.11.23, *prof.ir. H.B. Verbruggen*

2294 Gerrit Jan van den Berg, Copper metabolism in rats fed ascorbic acid or restricted amounts of copper, LIFE, 1993.11.25, *prof.dr. A.C. Beijnen, prof.dr.ir. J.J.M. de Goeij*

2295 Wijnand Victor Jeroen Freling, Stucwerk in het Nederlandse woonhuis, uit de 17e en 18e eeuw, HASS, 1993.11.25, *prof.dr.ir. C.L. Temminck Groll, prof.dr.ir. E.M.M.G. Niël*

2296 Dave Cornelis van Duyn, Multi signal-domain modeling of solid-state transducers. A theoretical framework based on irreversible thermodynamics mixed finite elements and multigrid, ELEC, 1993.11.29, *prof.dr.ir. S. Middelhoek*

2297 Peter Hendrikus Feenstra, Computational aspects of biaxial stress in plain and reinforced concrete, CIVI, 1993.11.29, *prof.dr.ir. R. de Borst*

- 2298 Rogier Meulenberg**, Metabolism of sulphur oxyanions in thiobacillus acidophilus, LIFE, 1993.11.30, *prof.dr. J.G. Kuenen*
- 2299 Frank Robert Riedijk**, Integrated smart sensors with digital bus interface, ELEC, 1993.11.30, *prof.dr.ir. J.H. Huijsing*
- 2300 Martin Alfred Kraaijveld**, Small sample behaviour of multi-layer feedforward network classifiers: theoretical and practical aspects, PHYS, 1993.11.30, *prof.dr. I.T. Young*
- 2301 Michiel Wilbert Rombout Maria van Overbeek**, Active control of periodic noise, PHYS, 1993.12.02, *prof.dr.ir. A.J. Berkhout*
- 2302 Nicolaas Jan Doelman**, Design of systems for active sound control, PHYS, 1993.12.02, *prof.dr.ir. A.J. Berkhout*
- 2303 Theodorus Wilhelmus Geerits**, Acoustic wave propagation through porous media: theory and experiment, GEOS, 1993.12.02, *prof.ir. J.J. van der Vuurst de Vries, prof.dr.ir. J.T. Fokkema*
- 2304 Johannes Buurman**, Object recognition for flexible assembly using stereo vision, PHYS, 1993.12.06, *prof.dr. I.T. Young*
- 2305 Marlene Keijzer**, Light transport for medical laser treatments, MATH, 1993.12.06, *prof.dr. A.J. Hermans*
- 2306 Rogier Visser**, Energy transfer in fluoride scintillators, PHYS, 1993.12.06, *prof.dr.ir. C.W.E. van Eijk*
- 2307 Adriana Wilhelmina Stobbe-kreemers**, The development of heterogeneous wacker oxidation catalysts. The role of the support and the redox component, CHEM, 1993.12.07, *prof.dr. J.J.F. Scholten, prof.dr. J. Reedijk*
- 2308 Jeanette Alexandra Adrianow**, Sociaal woningbeheer door corporaties in naoorlogse woonbuurten, ARCH, 1993.12.07, *prof.dr.ir. H. Priemus*
- 2309 Henk Peter Heeger**, Aanpak van naoorlogse probleemcomplexen, ARCH, 1993.12.07, *prof.dr.ir. H. Priemus*
- 2310 Sunrong Gong**, A Study of in-plane dynamics of tires, MECH, 1993.12.20, *prof.dr.ir. H.B. Paceyka*
- 2311 Helen Marie Kruythoff**, Residential environments and households in the randstad, ARCH, 1993.12.20, *prof.dr.ir. H. Priemus, prof.dr. F.M. Dieleman*
- 2312 Gustaaf Cornelis Stefess**, Oxidation of sulphide to elemental sulphur by aerobic thiobacilli, LIFE, 1993.12.20, *prof.dr. J.G. Kuenen*
- 2313 Johannes Petrus Marie van Oorschot**, Measuring and modeling computer networks, ELEC, 1993.12.21, *prof.ir. G.L. Reijns, prof.dr. H. Koppelaar*
- 2314 Bertus Melles**, Produktiebeheersing in de uitvoerende bouw, CIVI, 1993.12.21, *prof.dr.ir. J. Blaauwendraad, prof.dr.ir. J.C. Wortmann, prof. dr. ir. J.W.M. Bertrand*
- 2315 Johannes Wilhelmus Franciscus Wamelink**, Produktiebeheersing in de uitvoerende bouw, CIVI, 1993.12.21, *prof.dr.ir. J. Blaauwendraad, prof.dr.ir. J.C. Wortmann, prof. dr. ir. J.W.M. Bertrand*
- 2316 Johannes Garrelt Braker**, Algorithms and applications in timed discrete event systems, MATH, 1993.12.22, *prof.dr. G.J. Olsder*
- 2317 Olav Maria Steinebach**, Metabolic fate of metallothionein in copper and zinc interaction in cultured liver cells, LIFE, 1993.12.22, *prof.dr.ir. J.J.M. de Goij, prof.dr. F.A. de Wolff*

2318 Peter Vogel, Application of wave field synthesis in room acoustics, PHYS, 1993.12.22, *prof.dr.ir. A.J. Berkhout*

2319 Rudi Albert Hakvoort, Applications of positron depth profiling, PHYS, 1993.12.23, *prof.dr. A. van Veen, prof.dr.ir. H. van Dam*

2320 Johan Ernst Mebius, Applications of quaternions to dynamical simulation, computer graphics and biomechanics, INFO, 1994.01.11, *prof.dr. H. Koppelaar, prof.dr.ir. Th.H.M. Smits*

2321 Johannes Krijgsman, Optical remote sensing of water quality parameters. Interpretation of reflectance spectra, CIVI, 1994.01.11, *prof.dr. M. Donze*

2322 Marcelo Martins Seckler, Calcium phosphate precipitation in a fluidized bed, CHEM, 1994.01.17, *nu.prof.dr.ir. G.M. van Rosmalen*

2323 Jozina Bernhardina de Graaf, The initial direction of slow goal-directed arm movements. Deviation as a means to study spatial representation, IDEE, 1994.01.17, *prof.dr.ir. R. den Buurman, prof.dr.ir. J.J. Denier van der Gon*

2324 Wouter Frederik Schmidt, Neural pattern classifying systems. Theory and experiments with trainable pattern classifiers, PHYS, 1994.01.18, *prof.dr. I.T. Young*

2325 Peter van Turennot, Autonomous motion on wheels, ELEC, 1994.01.18, *prof.ir. G. Honderd*

2326 Rénard Chaigneau, Complex calcium ferrites in the blast furnace process, GEOS, 1994.01.24, *prof.dr.ir. R.H. Heerema*

2327 Hendricus Cornelis Josephus Maria van Gestel, Reliability related research on plastic ic-packages: A test chip approach, ELEC, 1994.01.24, *prof.dr.ir. S. Middelhoek*

2328 Gijsbertus Theodorus Luiten, Computer aided design for construction in the building industry, ARCH, 1994.01.25, *prof.ir. F.P. Tolman*

2329 André Veltman, The fish method. Interaction between AC-machines and switching power converters, ELEC, 1994.01.25, *prof.dr.ir. R.P.J. van den Bosch, prof.dr.ing. W. Delcroix*

2330 Joannes Wilibrordus Maria Cuijpers, Large-eddy simulation of cumulus convection, MECH, 1994.01.31, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr. J. Oerlemans*

2331 Weigang Lin, Interactions between SO₂ and NO_x emissions in fluidised bed combustion of coal, CHEM, 1994.01.31, *prof.ir. C.M. van den Bleek, prof.dr. K. Dam-Johansen*

2332 Leendert Albertus Dick van den Broeke, A single-chip multi-channel optical transmission system, ELEC, 1994.02.01, *prof.dr.ir. J. Davidse*

2333 Paulus Johannes Theodorus Venhovens, Optimal control of vehicle suspensions, MECH, 1994.02.07, *cum laude, prof.dr.ir. H.B. Pacejka, prof.ir. O.H. Bosgra*

2334 Christoffel Adrianus van Driel, Influence of additives on structure and thermal stability of ammonium nitrate, CHEM, 1994.02.07, *nu.prof.dr.ir. G.M. van Rosmalen*

- 2335 Jacobus Gerardus Maria Eggels**, Direct and large eddy simulation of turbulent flow in a cylindrical pipe geometry, MECH, 1994.02.10, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr.ir. P. Wesseling*
- 2336 Robbert Papenhuijzen**, Towards a human operator model of the navigator, MECH, 1994.02.10, *prof.dr.ir. H.G. Stassen*
- 2337 Armand Jean Christiaan Stekelenburg**, Statics and dynamics of a natural circulation cooled boiling water reactor, PHYS, 1994.02.21, *prof.dr.ir. H. van Dain*
- 2338 Taede Algra**, Multimedia tele-education. PC-based real-time narrowband applications, ELEC, 1994.02.22, *prof.dr. J.C. Arnbak*
- 2339 Johannes Andreas Maria Ammerlaan**, Kinetics and characterization of tungsten cvd processes, MATE, 1994.02.28, *prof.dr. J. Schoonman*
- 2340 Wouter Anton Serdijn**, The design of low-voltage low-power analog integrated circuits and their applications in hearing instruments, ELEC, 1994.02.28, *prof.dr.ir. J. Davidse*
- 2341 Petrus Johannes Adrianus Thijs**, Strained-Layer in GaAs(P)/InP quantum well semiconductor lasers grown by organometallic vapour phase epitaxy, MATE, 1994.03.01, cum laude, *prof.dr. B.H. Verbeek, prof.dr. L.J. Giling*
- 2342 Marguerite Georgine Mey**, Het stedelijke mozaïek. Een vertaling van de voorkeuren van stedelijke bevolkingscategorieën naar ruimtelijke milieus, ARCH, 1994.03.08, *prof.ir. J. van Tol, prof.dr. A.M.J. Kreukels*
- 2343 Zeguang Wang**, Studies on the flow induced by an oscillating airfoil in a uniform stream, AERO, 1994.03.08, *prof.dr.ir. J.A. Steketee*
- 2344 Eduard Kleihorst**, Frequency domain analysis for nonlinear electronic circuits, ELEC, 1994.03.14, *prof.dr.ir. J. Davidse, prof.dr.ir. P.M. Dewilde*
- 2345 Jan Pieter Dekker**, CVD techniques for the synthesis or modification of porous ceramics, CHEM, 1994.03.14, *prof.dr. J. Schoonman*
- 2346 Hendrik Jan de Koning Gans**, Numerical time dependent sheet cavitation simulations using a higher order panel method, MAR, 1994.03.15, *prof.dr.ir. G. Kuiper*
- 2347 Michal Jacek Rutka**, Integrated sensor bus, ELEC, 1994.03.22, *prof.dr.ir. S. Middelhoek, prof.dr.ir. J.H. Huijsing*
- 2348 Martin Bastiaan van Gijzen**, Iterative solution methods for linear equations in finite element computations, MATH, 1994.03.28, *prof.dr. H.A. van der Vorst*
- 2349 Jian-San Luo**, Stability and performance robustness analysis and design of automatic control systems, PHYS, 1994.03.28, *prof.dr. A. Johnson*
- 2350 Marc van Leusen**, A system of types in the domain of residential buildings, ARCH, 1994.03.29, cum laude, *prof.ir. K. Rijnboutt, prof. A. Tzonis*
- 2351 Renatus Josephus van der Vleuten**, Trellis-based source and channel coding, ELEC, 1994.03.29, *prof.dr.ir. J. Biemond*
- 2352 Bert Jan Kooij**, Analysis of transient electromagnetic fields in an electrical utility substation environment, ELEC, 1994.04.05, *prof.dr.ir. P.M. van den Berg*

- 2353 Pieter Johannes Jansens**, Fractional suspension crystallization of organic compounds, CHEM, 1994.04.05, cum laude, *mu.prof.dr.ir. G.M. van Rosmalen, prof.dr.ir. J. de Graauw*
- 2354 Alfons Johannes Quirinus Alkemade**, On vortex atoms and vortons, MECH, 1994.04.05, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr.ir. E.W.C. van Groesen., prof. dr. H.A.M. Snelders*
- 2355 Gerben Willem de Jong**, Smart capacitive sensors. Physical, geometrical and electronic aspects, ELEC, 1994.04.12, *prof.dr.ir. J. Davidse*
- 2356 Evert Cornelis Slob**, Scattering of transient diffusive electromagnetic fields, ELEC, 1994.04.12, cum laude, *prof.dr.ir. P.M. van den Berg, prof.dr.ir. J.T. Fokkema*
- 2357 Cornelis Kamminga**, Research on dolphin sounds, ELEC, 1994.04.21, *prof.dr.ir. E. Backer*
- 2358 Pei Dong Wu**, Constitutive modelling of the large strain behaviour of rubbers and amorphous glassy polymers, MECH, 1994.04.25, *prof.dr.ir. E. van der Giessen*
- 2359 Wim Jan Slagter**, Static strength of riveted joints in fibre metal laminates, AERO, 1994.04.25, *prof.dr. A. Rothwell*
- 2360 Maarten Romboud Wolffenbuttel**, Surface micromachined capacitive tactile image sensor, ELEC, 1994.04.25, *prof.dr.ir. S. Middelhoek, prof.dr.ir. P.P.L. Regtien*
- 2361 Brechtje Johanna Daams**, Human force exertion in user-product interaction. Backgrounds for design, IDEE, 1994.04.26, *prof.dr.Eur Ing J.M. Dirken*
- 2362 Jozef Theodorus Wilhelmus Damen**, Flexible mail processing. An application of integral postal engineering, MECH, 1994.04.26, *prof.dr.ir. J.J.M. Evers*
- 2363 Kamal Eldin Mohamed Mahmoud**, Non-linear A/D converters for integrated silicon smart sensors, ELEC, 1994.04.26, *prof.dr.ir. S. Middelhoek*
- 2364 Librado Arturo Sarmiento Reyes**, A partition method for the determination of multiple DC operating points, ELEC, 1994.05.02, *prof.dr.ir. J. Davidse*
- 2365 Gerard Cornelis van Rhoon**, Radiofrequency hyperthermia systems. Experimental and clinical assessment of the feasibility of radiofrequency hyperthermia systems for loco-regional deep heating, ELEC, 1994.05.03, *prof.dr.ir. P.M. van den Berg, prof.dr. H.S. Reinhold*
- 2366 Adrianus Johannes Franciscus Kok**, Ray tracing and radiosity algorithms for photorealistic image synthesis, INFO, 1994.05.03, *prof.dr.ir. F.W. Jansen*
- 2367 Kenneth Glyndwr Thomas**, Research, engineering design and operation of a pressure hydrometallurgy facility for gold extraction, MATE, 1994.05.03, *prof.dr.ir. G. van Weert*
- 2368 Roger Joseph Anna Janssen**, Instabilities in natural-convection flows in cavities, PHYS, 1994.05.09, *prof.ir. C.J. Hoogendoorn*
- 2369 Kars-Michiël Hubert Lenssen**, Electron transport in mesoscopic GaAs/AlGaAs structures with superconducting contacts, PHYS, 1994.05.09, *prof.dr.ir. J.E. Mooij*
- 2370 Herman Johannes Barnard**, Image and video coding using a wavelet decomposition, ELEC, 1994.05.10, *prof.dr.ir. J. Biemond*
- 2371 Robert Plat**, Gravitational and centrifugal oil-water separators with plate pack internals, GEOS, 1994.05.16, *prof.ir. J.J. van der Vuurst de Vries, prof.dr.ir. J. de Graauw*

2372 Gerrit Jan Leusink, Growth and properties of CVD-W films for microelectronic applications. A study on growth related stress, MATE. 1994.05.16, *prof.dr.ir. S. Radelaar*

2373 Petra Christina Anna Hammes, Infrared matrix sensor using PVDF on silicon, ELEC. 1994.05.17, *prof.dr.ir. S. Middelhoek*

2374 Ronald Bastiaan Johan Brinkgreve, Geomaterial models and numerical analysis of softening, CIVI. 1994.05.24, *prof.dr.ir. A. Verruijt, prof.dr.ir. P.A. Vermeer*

2375 Lucien Marinus Johannes Robroek, The development of rubber forming as a rapid thermoforming technique of continuous fibre reinforced thermoplastic composites, AERO. 1994.05.24, *prof.dr.ir. Th. de Jong, prof.dr.ir. R. Marissen*

2376 Caspar Jacobus Blom, Time-periodic solutions of some forced nonlinear wave equations, MATH. 1994.05.31, *prof.dr.ir. J.W. Reyn*

2377 Willem Cornelis Verloop, The fluid dynamics of the freeboard in a fluidized bed reactor, MECH. 1994.05.31, *prof.dr.ing. K.R.G. Hein, prof.dr.ir. H.E.A. van den Akker*

2378 Martin Laban, On-line aircraft aerodynamic model identification, AERO. 1994.05.31, cum laude, *prof.dr.ir. J.A. Mulder*

2379 Johannes Lodewijk Leonardus Rakels, Process strategies in the enzymatic resolution of enantiomers, LIFE. 1994.06.01, *prof.dr.ir. J.J. Heijnen*

2380 Hendrik de Haan, Direct sticking measurements in muon catalyzed fusion, PHYS. 1994.06.06, *prof.dr.ir. C.W.E. van Eijk*

2381 Rutger Johannes Mattheus Huijgens, The influence of interfacial tension on nitrogen flooding, GEOS. 1994.06.06, *prof.dr.ir. J. Hagoort*

2382 Robert Stephen Fredell, Damage tolerant repair techniques for pressurized aircraft fuselages, AERO. 1994.06.06, *prof.dr.ir. J. Schijve, prof.ir. L.B. Vogelesang*

2383 Catharina Petronella Bernardina van der Ploeg, Intramyocardial blood volume and oxygen exchange, LIFE. 1994.06.07, *prof.dr.ir. J.A.E. Spaan, prof.dr.ir. H.G. Stassen*

2384 Peter Alexander Duine, Atomic mobility and structural relaxation in amorphous PdNiP, MATE. 1994.06.07, cum laude, *prof.dr.ir. A. van den Beukel*

2385 Johanna Frederika Hildegonda Schultz, EDI: kansspel, machts spel of samenspel?, SCGE. 1994.06.07, *prof.dr. J.H.T.H. Andriessen*

2386 Ricardo Alexander Frederik Belfor, Subsampling methods for image sequence coding, ELEC. 1994.06.09, *prof.dr.ir. J. Biemond*

2387 Johannes Cornelis Maria van den Ende, The turn of the tide computerization in dutch society, 1900-1965, SCGE. 1994.06.09, *prof.dr. Ph.J. Vergragt, prof.dr. C.P. Bertels*

2388 Ruud Alexander Weusthuis, Disaccharide fermentation by yeasts, LIFE. 1994.06.09, *prof.dr. J.G. Kuenen*

2389 Cornelis Maas, On convolutional processes and dispersive groundwater flow, CIVI. 1994.06.13, *prof.dr.ir. A. Verruijt, prof.dr.ir. O.D.L. Strack*

2390 Johannes Gerardus Maria van Berkum, Strain fields in crystalline materials. Methods of analysis based on X-ray diffraction-line broadening, MATE. 1994.06.13, cum laude, *prof.dr.ir. E.J. Mittemeijer*

2391 Cornelis Klomp, Sensor based fine motion control, ELEC. 1994.06.14, *prof.ir. G. Honderd*

2392 Ichsan Setya Putra, Fatigue crack growth predictions of surface cracks under constant-amplitude and variable-amplitude loading, MATE. 1994.06.14, *prof.dr.ir. J. Schijve*

2393 Jianlei Niu, Modelling of cooled-ceiling air-conditioning systems, MECH. 1994.06.14, *prof.ir. H. van der Ree*

2394 Pawel Bujakiewicz, Maximum weighted matching for high index differential algebraic equations, ELEC. 1994.06.15, *prof.dr.ir. P.P.J. van den Bosch*

2395 Petrus Martinus Maria Bongers, Modeling and identification of flexible wind turbines and a factorizational approach to robust control, MECH. 1994.06.16, *prof.ir. O.H. Bosgra*

2396 Robertus Antonius Kuiper, Transport phenomena in underground coal gasification channels, PHYS. 1994.06.16, cum laude, *prof.ir. C.J. Hoogendoorn*

2397 Yaonan Zhang, Integration of segmentation and stereo matching, ELEC. 1994.06.16, *prof.dr.ir. E. Backer, prof.dr.ir. G.H. Ligterink*

2398 Pippinus Maarten Robertus Wortelboer, Frequency-weighted balanced reduction of closed-loop mechanical servo-systems: theory and tools, MECH. 1994.06.20, *prof.ir. O.H. Bosgra*

2399 Rogier Vincent van de Ree, Supervisory control systems, INFO. 1994.06.20, *prof.dr. H. Koppelaar*

2400 Gerardus Christianus Antonius Luijckx, Hydrothermal conversion of carbohydrates and related compounds, CHEM. 1994.06.20, *prof.dr.ir. H. van Bekkum*

2401 Marinus Maria van Paassen, Biophysics in aircraft control. A model of the neuromuscular system of the pilot's arm, AERO. 1994.06.24, *prof.dr.ir. O.H. Gerlach, prof.dr.ir. H.G. Stassen*

2402 Hendrik Pieter Bruin, Invariant measures of interval maps, MATH. 1994.06.24, *prof.dr. S.J. van Strien, prof.dr. J.M. Aarts*

2403 Robert Struijs, A multi-dimensional upwind discretization method for the Euler equations on unstructured grids, MATH. 1994.06.24, *prof.dr.ir. P. Wesseling, prof.dr. H. Deconinck*

2404 Wilhelmus Johannes Bernardus van den Bergh, Part I. Simulation of the dynamic mixing performance of an orbiting screw mixer Part II. Influence of particle breakage on the wall friction coefficient of brittle particulate solids, CHEM. 1994.06.27, *prof. M.Sc. B. Scarlett*

2405 Fred Govert de Beer, Electromagnetic soft transition. A method for programming transitions in electronically controlled induction motor drives, ELEC. 1994.06.27, *prof.dr.ing. W. Deleroi*

2406 Pieter van den Berg, Analysis of soil penetration, CIVI. 1994.06.27, *prof.dr.ir. A. Verruijt, prof.dr.ir. R. de Borst*

2407 Annoesjka Joberte Cabo, Set functionals in stochastic geometry, MATH. 1994.06.28, *prof.dr. P. Groeneboom, prof.dr. A.J. Baddeley*

2408 Aysel Safak-ozkeser, Effects of correlated interferers in multi-user radio systems, ELEC, 1994.06.28, *prof.dr. J.C. Arnbak*

2409 Walter Alexander Hartgers, Aromatic moieties in geomacromolecules: structure, origin and significance, LIFE, 1994.06.28, *prof.dr. P.A. Schenck*

2410 Franciscus Hendrikus Brugman, The island of Saba, a Caribbean example, ARCH, 1994.09.06, *prof.dr.ir. C.L. Temminck Groll*, *prof.dr. R.A. Römer*

2411 Antoon Alfons Moolenaar, A 141 Pr Mössbauer study of praseodymium compounds, PHYS, 1994.09.06, *prof.dr. J.J. van Loef*, *prof.dr. K.H.J. Buschow*

2412 Bernard Rudolf Buddingh, Van Punt en Snoa. Ontstaan en groei van Willemstad, Curaçao van 1634. De Willemstad tussen 1700 en 1732 en de bouwgeschiedenis van de synagoge Mikvé Israël-Emanuel 1730-1732, ARCH, 1994.09.06, *prof.dr.ir. F.W. van Voorden*

2413 Geert Arnout Awater, Broadband communication. Modeling, analysis and synthesis of an ATM switching element, ELEC, 1994.09.12, *prof.dr. F.C. Schoute*

2414 Johannes Hendrikus Maria Hakvoort, Absorption of light by surface water, CIVI, 1994.09.12, *prof.dr. M. Donze*

2415 Gerardus Theodorus Maria Stam, A micromechanical approach to transformation toughening in ceramics, MECH, 1994.09.12, *prof.dr.ir. E. van der Giessen*, *prof.dr.ir. P. Meijers*

2416 Emile Thomas Johannes Martynowicz, Impurity uptake in calcium sulfate during phosphoric acid processing, CHEM, 1994.09.13, *mw.prof.dr.ir. G.M. van Rosmalen*

2417 Marinus Jacobus Josephus van den Putte, The antiproton stopping distribution in CPLEAR, PHYS, 1994.09.13, *prof.dr.ir. C.W.E. van Eijk*, *prof.dr. H. Postma*

2418 Adrianus Johannes Petrus van Haasteren, Real-time phase stepped speckle interferometry, PHYS, 1994.09.13, *prof.dr.ir. H.J. Frankena*

2419 Edgardo Fabian Klass, Wave pipelining: Theoretical and practical issues in CMOS, INFO, 1994.09.14, *prof.dr.ir. A.J. van de Goor*

2420 Jan Alexander Keuning, The nonlinear behaviour of fast monohulls in head waves, MARI, 1994.09.14, *prof.ir. J. Gerritsma*

2421 Xiao-Mei Shen, Lipase-catalyzed enantioselective esterification in supercritical CO₂ design and performance of solubility equipment and a SCF reactor, CHEM, 1994.09.19, *prof.dr.ir. J. de Swaan Arons*

2422 Andrea Joanna Serafina Hin, Visualization of turbulent flow, INFO, 1994.09.19, *prof.dr.ir. F.W. Jansen*

2423 Johannes Bernardus Antonius van Tol, Description of the kinetics and enantioselectivity of lipases in various media, CHEM, 1994.09.19, *prof.dr.ir. J.A. Duine*

2424 Bojan Vucinic, MA-CAD, maintenance concept adjustment & design, MECH, 1994.09.20, *prof.ir. J. Klein Woud*, *prof.ir. K. Smit*

2425 Paul Frank Lambrechts, The application of robust control theory concepts to mechanical servo systems, MECH, 1994.09.20, *prof.ir. O.H. Bosgra*

- 2426 Henri Arie Johan de Ridder**, Design & construct of complex civil engineering systems A new approach to organization and contracts, CIVI, 1994.09.20, *prof.dr. J.G. Wolters*
- 2427 Jurgen Olivier Stigter**, Error management or how a robot can bear Murphy's law, INFO, 1994.09.26, *prof.dr. H. Koppelaar*
- 2428 Hubertus Anna Joseph Knops**, Numerical simulation of crack growth in pressurized fuselages, AERO, 1994.09.26, *prof.dr. J. Arbocz*
- 2429 Douwe Klaas de Vries**, Identification of model uncertainty for control design, MECH, 1994.09.26, *prof.dr. O.H. Bosgra*
- 2430 Jeroen Willem van Meel**, The dynamics of business engineering. Reflections on two case studies within the Amsterdam municipal police force, ADMI, 1994.09.27, *prof.dr. H.G. Sol*
- 2431 Edwin Mark Berends**, Supercritical crystallization. The res-process and the gas-process, CHEM, 1994.09.27, *mu.prof.dr.ir. G.M. van Rosmalen*, *prof.dr.ir. J. de Graauw*
- 2432 Arie Geerlof**, Enantioselectivity of quinoprotein alcohol dehydrogenases, CHEM, 1994.09.27, *prof.dr.ir. J.A. Duine*
- 2433 Dirk Leonardus Kettenis**, Issues of parallelization in implementation of the combined simulation language cosmos, INFO, 1994.10.03, *prof.dr. H. Koppelaar*
- 2434 Adrianus Christiaan Vermeulen**, Diffraction-line broadening analysis and stress relaxation in thin metal layers, MATE, 1994.10.03, *prof.dr.ir. E.J. Mittemeijer*
- 2435 Eric de Sturler**, Iterative methods on distributed memory computers, MATH, 1994.10.04, *prof.dr. H.A. van der Vorst*, *prof.dr.ir. P. Wesseling*
- 2436 Jacobus Peter Theodorus Vossen**, Corrosion of separator plate constituents in molten carbonate, MATE, 1994.10.04, *prof.dr. J.H.W. de Wit*
- 2437 Michael Johannes Vellekoop**, A smart lamb-wave sensor system for the determination of fluid properties, ELEC, 1994.10.07, *prof.dr.ir. S. Middelhoek*
- 2438 Amir Shahab Kokabi Jahromi**, Ordered epoxy networks. Synthesis and physical properties, CHEM, 1994.10.07, *prof.dr. W.J. Mijs*, *prof.dr.ir. A. de Posthuma de Boer*
- 2439 Richard Petrus Kleihorst**, Noise filtering of image sequences, ELEC, 1994.10.10, *prof.dr.ir. J. Biemond*
- 2440 Peter Paul Borsboom**, Field analysis of integrated-optical gratings, PHYS, 1994.10.10, *prof.dr.ir. J.J.M. Braat*, *prof.dr.ir. H.J. Frankena*
- 2441 Johannes Wisserhof**, Matching research and policy in integrated water management, CIVI, 1994.10.10, *prof.dr. J. de Jong*, *prof.dr. J. Wessels*
- 2442 Martin Bosma**, Impact properties of coated engineering plastics, MATE, 1994.10.14, *prof.dr.ir. S. van der Zwaag*
- 2443 Martin Ronald Amersfoort**, Phased-array wavelength demultiplexers and their integration with photodetectors, ELEC, 1994.10.14, *prof.dr. B.H. Verbeek*
- 2444 Lucas Beda Soldano**, Multimode interference couplers. Design and applications, ELEC, 1994.10.14, *prof.dr. B.H. Verbeek*

- 2445 Ivo Johannes Opstelten**, Experimental study on transition characteristics of natural-convection flow, PHYS. 1994.10.17, *prof.dr. C.J. Hoogendoorn*
- 2446 Karel Cornelis Strasters**, Quantitative Analysis in confocal image cytometry, ELEC. 1994.10.27, *prof.dr.ir. A.W.M. Smeulders, prof.dr. I.T. Young*
- 2447 Yolanda Margaretha Maria Knops**, Critical behaviour of spin models. A transfer-matrix approach, PHYS. 1994.10.27, *prof.dr. B. Nienhuis, prof.dr.ir. J.J.J. Kokkedee*
- 2448 Deodorus Jacobus Groen**, Macromixing in bioreactors, LIFE. 1994.10.27, *prof.ir. K.C.A.M. Luyben*
- 2449 Bob Goedhart**, A general framework for compositional reasoning with uncertainty, ELEC. 1994.10.28, *prof.dr.ir. E. Backer*
- 2450 Casper Gerard Cornelis van Dijk**, Interactive modeling of transfinite surfaces with sketch design curves, IDEE. 1994.10.28, *prof.ir. B.B. Schierbeek, prof.dr.ir. R. den Buurman*
- 2451 Darco Antic**, Low-speed, low frequency AC drive. Matrix-Cuk converter in an AC drive application with shaft sensorless vector control, ELEC. 1994.10.28, *prof.dr.ing. W. Delcroix*
- 2452 Carol Marie Orange**, Supervised boundary formation, PHYS. 1994.10.31, *prof.dr.ir. F.C.A. Groen, prof.dr. I.T. Young*
- 2453 Edwin Deerenberg**, Elastoplastic buckling analysis of cylindrical shells using a semi-analytical formulation, AERO. 1994.10.31, *prof.dr. J. Arbocz*
- 2454 Ye-shi Cao**, Aerobic heterotropic biodegradation in polluted drains and sewers. The drain and sewer as dual-phase biological reactors, LIFE. 1994.11.07, *prof.dr.ir. J.J. Heijnen*
- 2455 Reinder Hette Wassenaar**, Simultaneous heat and mass transfer in a horizontal tube absorber. Numerical tools for present and future absorber designs, MECH. 1994.11.07, *prof.ir. H. van der Ree*
- 2456 Sebastianus Johannes Maria Bakker**, Planar semiconductor coupled superconducting devices, PHYS. 1994.11.07, *prof.dr.ir. S. Radelaar, prof.dr.ir. T.M. Klapwijk*
- 2457 Wilhelmus Joannes Maria de Kruijf**, Reactor physics analysis of the Pin-Cell doppler effect in a thermal nuclear reactor, PHYS. 1994.11.08, *prof.dr.ir. H. van Dam*
- 2458 Lucas Joseph Vijgen**, Coulomb interaction in focused ion beam systems, PHYS. 1994.11.08, *prof.dr.ir. P. Kruit*
- 2459 Rudolphe Gustave Hubertus Eschauzier**, Wide bandwidth, low power operational amplifiers, ELEC. 1994.11.08, *cum laude, prof.dr.ir. J.H. Huijsing*
- 2460 Arie Romeijn**, Stress and strain concentration factors of welded multiplanar tubular joints, CIVI. 1994.11.14, *prof.dr.ir. J. Wardenier*
- 2461 Ronaldus Martinus Wilhelmus Overwater**, The physics of big sample instrumental neutron activation analysis, PHYS. 1994.11.14, *prof.dr.ir. J.J.M. de Goeij*
- 2462 Wenjun Zhang**, An integrated environment for CAD/CAM of mechanical systems, MECH. 1994.11.15, *prof.ir. H.A. Crone, prof.dr.ir. K. van der Werff*

- 2463 Jorrit Ernst de Vries**, Study on turbulent fluctuations in diffusion flames using laser induced fluorescence, PHYS, 1994.11.15, *prof.dr. C.J. Hoogendoorn*
- 2464 Fina Huitema**, The primary structure of methylamine dehydrogenase from *Thiobacillus versutus*, LIFE, 1994.11.15, *prof.dr.ir. J.A. Duine, prof.dr. G.W. Canters*
- 2465 Wouter Schuddeboom**, Photophysical properties of opto-electric molecules studied by time-resolved microwave conductivity, PHYS, 1994.11.17, *prof.dr. A. Hummel*
- 2466 Johanna Maria Theresia Stam**, Process-based modelling of aeolian bedforms, CIVI, 1994.11.17, *prof.dr.ir. J.C. van Dam, prof.dr. F.R. van Veen*
- 2467 Jurrian Huskens**, Lanthanide (III) catalyzed reactions: Structure and Thermodynamics of intermediate complexes and implications for reactivity, CHEM, 1994.11.21, *prof.dr.ir. H. van Bekkum*
- 2468 Maarten Willem Dingemans**, Water wave propagation over uneven bottoms, MATH, 1994.11.21, *prof.dr.ir. A.J. Hermans*
- 2469 Daniël Willem Dunsbergen**, Particle models for transport in three-dimensional shallow water flow, CIVI, 1994.11.22, *prof.dr.ir. G.S. Stelling*
- 2470 Robertus Franciscus Maria van den Brink**, Low-noise wideband feedback amplifiers. An integrated approach to characterization and design using microwave and lightwave techniques, ELEC, 1994.11.22, *prof.dr.ir. R.F.G. Baets*
- 2471 Evert Jan den Haan**, Vertical compression of soils, CIVI, 1994.11.28, *prof.dr.ir. A. Verruijt, prof.dr.ir. F.B.J. Barends*
- 2472 Erik de Romph**, A dynamic traffic assignment model. Theory and applications, CIVI, 1994.11.28, *prof.dr.ir. R. Hamerslag*
- 2473 Richard Gerrit Hakvoort**, System identification for robust process control. Nominal models and error bounds, MECH, 1994.11.29, *prof.ir. O.H. Bosgra*
- 2474 Luc Tijhuis**, The biofilm airlift suspension reactor. Biofilm formation, detachment and heterogeneity, LIFE, 1994.11.29, *prof.dr.ir. J.J. Heijnen*
- 2475 Paul Stravers**, Embedded system design, ELEC, 1994.12.05, *prof.dr.ir. R.H.J.M. Otten, prof.dr. G. de Micheli*
- 2476 Michael Janssen**, Acoustoelastic stress evaluation in metal plate using absolute shear and longitudinal time-of-flight data, MATE, 1994.12.05, *prof.dr.ir. A. Bakker*
- 2477 Paula Maria Theresia Smeele**, Perceiving speech: integrating auditory and visual speech, IDEE, 1994.12.06, *prof.dr.ir. R. den Buurman*
- 2478 Johan Frank Jongste**, Formation and properties of titanium disilicide. A study on the development of stress in Ti-Si Thin Films, PHYS, 1994.12.06, *prof.dr.ir. S. Radelaar*
- 2479 Mathieu Jean-Baptiste Marie Porquié**, Large-eddy simulation of a turbulent jet, MECH, 1994.12.06, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr.ir. P. Wesseling*
- 2480 Florin Dan Barb**, Digital control of distributed parameter systems: a state-space approach, MATH, 1994.12.07, *prof.dr. G.J. Olsder*

- 2481 Li Yu**, A framework for comparing and controlling number-based design reasoning systems, ARCH, 1994.12.12, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 2482 Jerzy Krzysztof Pamin**, Gradient-dependent plasticity in numerical simulation of localization phenomena, CIVI, 1994.12.12, *prof.dr.ir. R. de Borst*
- 2483 Gerardus Cornelius Joseph Bart**, Thermal conduction in non homogeneous and phase change media, PHYS, 1994.12.12, *prof.ir. C.J. Hoogendoorn*
- 2484 Peter Carlton Sriver**, Rationalization, standardization and control in design. A cognitive historical study of architectural design and planning in the public works department of British India, 1855-1901, ARCH, 1994.12.13, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 2485 Anna Wilhelmina Catharina Metselaar**, Zelfwerkzaamheid in de sociale huursector in Nederland, ARCH, 1994.12.13, *prof.dr.ir. H. Priemus*
- 2486 Anthonius Louis Marie Hoenderdos**, Signaleringsystemen voor woning- en wijkbeheer, ARCH, 1994.12.13, *prof.dr.ir. H. Priemus*
- 2487 Kamran Eftekhari Shahrudi**, Development and validation of a computer assisted design methodology for gas-turbine-based aircraft engines, AERO, 1994.12.16, *prof.ir. E. Torenbeek, prof.ir. J.P. van Buijtenen*
- 2488 Diomidis Stamoulis**, Patterns of fluid phase behaviour in binary and quasi-binary mixtures, CHEM, 1994.12.19, *prof.dr.ir. J. de Swaan Arons*
- 2489 Mohammad Hossain Biglari**, Precipitation of AlN in an Fe-Al-Alloy during internal nitriding, MATE, 1994.12.19, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. S. van der Zwaag*
- 2490 Johannes Franciscus Maria Molenbroek**, Op maat gemaakt. Menselijke maten voor het ontwerpen en beoordelen van gebruiksgoederen, IDEE, 1994.12.20, *prof.dr.Eur Ing J.M. Dirken, prof.dr. J.C. van Wieringen*
- 2491 Martijn Jurjen Hoogeveen**, The viability of multimedia retrieval systems for marketing and sales, ADMI, 1994.12.20, *prof.dr. H.G. Sol*
- 2492 Henricus Josephus Maria Bastiaansen**, Modal analysis of straight and curved integrated optical waveguides. An integral equation approach, ELEC, 1994.12.20, *prof.dr.ir. H. Blok*
- 2493 Cristiane Maurer**, Zitten en blijven zitten. Waarneming en gebruik van straatmeubilair, IDEE, 1994.12.21, *mvw.prof.dr. G.J.F. Smets, prof.ing. A.H. Marinissen*
- 2494 Pieter Gloudis Schouten**, Charge carrier dynamics in pulse-irradiated columnar aggregates of mesomorphic porphyrins and phthalocyanines, CHEM, 1994.12.21, *prof.dr. A. Hummel*
- 2495 Guiqiao Tao**, Optical modeling and characterization of hydrogenated amorphous silicon solar cells, ELEC, 1994.12.21, *prof.dr. M. Kleefstra, prof.dr. C.I.M. Beenakker*
- 2496 Leonardus Johannes Maria Adegeest**, Nonlinear hull girder loads in ships, MARI, 1995.01.09, *prof.dr.ir. J.A. Pinkster*

2497 Alexander Christiaan van der Klauw, Closed-loop identification issues in the process industry, ELEC, 1995.01.09, *prof.dr.ir. R.P.J. van den Bosch*

2498 Ronald Gilbert Gill, De Indische stad op Java en Madura. Een morfologische studie van haar ontwikkeling, ARCH, 1995.01.10, *prof.dr.ir. C.L. Temminck Groll*, *prof.dr.ir. F.W. van Voorden*

2499 Diguang Gong, Numerical simulation of mechanisms and manipulator robots with flexible joints, MECH, 1995.01.10, *prof.dr.ir. J.F. Besseling*

2500 Jacobus Wilhelmus Hooijmans, Hydrogen absorption in iron and steel during gas tungsten arc welding, MATE, 1995.01.10, *prof.dr. G. den Ouden*

2501 Bastian Blonk, Removal of scattered surface waves from seismic data, MATH, 1995.01.16, *prof.dr.ir. A.J. Hermans*

2502 Pavol Bauer, Dynamic analysis of three-phase AC converters. A method for the dynamic analysis and synthesis of pulse-modulated three-phase AC converters, ELEC, 1995.01.16, *prof.dr.ing. W. Delcroi*

2503 Zhao Su, Microstructure of polymer cement concrete, CIVI, 1995.01.16, *prof.dr. J.M.J.M. Bijen*, *prof.dr.ir. Y.M. de Haan*

2504 Jan Hendrik Bultman, Actinide transmutation in nuclear reactors, PHYS, 1995.01.17, *prof.dr.ir. H. van Dam*

2505 Alexander Michiel Mollinger, Particle entrainment. Measurement of the fluctuating lift force, MECH, 1995.01.17, *prof.dr.ir. F.T.M. Nieuwstadt*, *prof. M.Sc. B. Scarlett*

2506 Vincent Edward Johannes van Dieten, Electrochemical vapour deposition of SOFC interconnection materials, CHEM, 1995.01.23, *prof.dr. J. Schoonman*

2507 Esmail Panjeh Shahi, Stress and strain concentration factors of welded multiplanar joints between square hollow sections, CIVI, 1995.01.24, *prof.dr.ir. J. Wardenier*, *prof.dr.ir. R.S. Puthli*

2508 Peter Anthonie Fokker, The behaviour of salt and salt caverns, CIVI, 1995.01.24, *prof.dr.ir. A. Verruijt* NA
(10-03-2004)

2509 Gerardus Jacob van der Vegte, The static strength of uniplanar and multiplanar tubular T- and X-joints, CIVI, 1995.01.30, cum laude, *prof.dr.ir. J. Wardenier*

2510 Marcel Johannes Geerdink, Kinetics of the microbial degradation of oil in soil slurry reactors, LIFE, 1995.01.30, *prof.ir. K.C.A.M. Luyben*

2511 Gerard Marie Rene du Cauze de Nazelle, Thermal conductivity ageing of rigid closed cell polyurethane foams, PHYS, 1995.01.31, *prof.ir. C.J. Hoogendoorn*

2512 Patrick Guido van Bladel, Design of fibre reinforced composite panels for aerospace applications, AERO, 1995.01.31, *prof.dr. A. Rothwell*

2513 Jaap de Koning, Het onderzoek naar de gekombineerde behandeling van met hexacyanoferraar verontreinigd grondwater en stedelijk afvalwater, CIVI, 1995.02.06, *prof.ir. J.H. Kop*, *prof.ir. J.H.J.M. van der Graaf*

2514 Paul Hölscher, Dynamical response of saturated and dry soils, CIVI, 1995.02.06, *prof.dr.ir. F.B.J. Barends*

2515 Leendert Weijers, The near-wellbore geometry of hydraulic fractures initiated from horizontal and deviated wells, GEOS, 1995.02.07, *prof.dr.ir. J. Hagoort*

2516 Neng Yu Chen, Normal state properties and laser deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ superconductor thin films, PHYS, 1995.02.13, *prof.dr.ir. J.E. Mooij, prof.dr. D. van der Marel*

2517 Milos Savic, Ultrasonic scattering from a hydraulic fracture. Theory, computation and experiment, GEOS, 1995.02.13, *prof.dr. A.M. Ziolkowski*

2518 Marcel Onink, Decomposition of hypo-eutectoid iron carbon austenites, MATE, 1995.02.13, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. S. van der Zwaag*

2519 Mathias Maria Johannes Jacobs, Scheurgroei in asfalt, CIVI, 1995.02.14, *prof.dr.ir. A.A.A. Molenaar*

2520 Charles Albert Paul Gerard van der Mast, Developing educational software. Integrating disciplines and media, INFO, 1995.02.14, *prof.dr. H.G. Sol*

2521 Franciscus Albertus Gunsing, The spin of resonances in reactions of neutrons with ^{238}U and ^{113}Cd , PHYS, 1995.02.20, *prof.dr. H. Postma*

2522 Theodoor Brandsma, Hydrological impact of climate change. A sensitivity study for the Netherlands, CIVI, 1995.02.20, *prof.dr.ir. J.C. van Dam*

2523 Jeroen Daniel Schuppers, Characterization of deep-marine clastic sediments from foreland basins. Outcrop-derived concepts for exploration, production and reservoir modelling, GEOS, 1995.02.20, *prof.dr. F.R. van Veen, prof.dr.ir. J.C. van Dam*

2524 Herman Jan Willem Lenderink, Filiform corrosion of coated aluminium alloys. A study of mechanism, MATE, 1995.02.21, *prof.dr. J.H.W. de Wit*

2525 Walter Eduard Antonius Rietveld, Controlled illumination in prestack seismic migration, PHYS, 1995.02.21, *prof.dr.ir. A.J. Berkhout*

2526 Herke Gerrit Stuit, Sand in the geotechnical centrifuge, CIVI, 1995.02.27, *prof.dr.ir. A. Verruijt*

2527 Lucas Klostermann, Spin dependent structure function g_1 of the deuteron and the proton, PHYS, 1995.02.27, *prof.dr. H. Postma, prof.dr. G. van Middelkoop*

2528 Jurriaan Ernst Schlatmann, Ajmalicine production by *Catharanthus roseus*: process operation and modelling, LIFE, 1995.03.14, *prof.dr.ir. J.J. Heijnen*

2529 Hendrik Jan Reinout Deketh, Wear of rock cutting tools. Laboratory experiment on the abrasivity of rock, GEOS, 1995.03.21, *prof. D.G. Price, prof.dr.ing. D.D. Genske*

2530 Jan Peter Baartman, Automation of assembly operators on parts, MECH, 1995.03.23, *prof.ir. L.N. Reijers*

2531 Martijn Hendrik Willem Burgers, Zeolite-catalyzed nucleophilic aromatic substitution reactions, CHEM, 1995.03.23, *prof.dr.ir. H. van Bekkum*

2532 Liping Yang, Processing and recognition of handwriting in multimedia environments, ELEC, 1995.03.27, *prof.dr. J.C. Arnbak*

2533 Norfried Erich Ludwig Pohl, Der kommende Stadtpark. Über urbane grundbefindlichkeiten und die einmischung der natur, ARCH, 1995.03.28, *prof.dr.ir. F.M. Maas*

2534 Erik Jan Alexander van Zijderveld, A structured terminal design method. With a focus on rail container terminals, MECH, 1995.03.28, *prof.dr. M. van Holst*

2535 Henk Jurriën Prins, Time-domain calculations of drift forces and moments, MATH, 1995.03.31, *prof.dr.ir. A.J. Hermans*

2536 Reynold Anodj Chandansingh, The economic value of CAD systems in structural design and construction, HASS, 1995.04.07, *prof.ir. Ch.J. Vos, prof.dr. A. Moushowitz*

2537 Gerardus Johannes Franciscus Smolders, A metabolic model of the biological phosphorus removal stoichiometry, kinetics and dynamic behaviour, LIFE, 1995.04.10, cum laude, *prof.dr.ir. J.J. Heijnen*

2538 Benito Francesco van Leerdam, Architect Henri Maclaine Pont, een speurtocht naar het wezenlijke van de javaanse architectuur, ARCH, 1995.04.11, *prof.dr.ir. C.L. Temminck Groll, prof.dr.ir. F.W. van Voorden*

2539 Antoon van Beek, Analysis of rubber supported hydrostatic bearing systems with elastic bearing surfaces, MECH, 1995.04.13, *prof.ir. A.W.J. de Gee*

2540 Wiveka Jacoba Elion, Quantum phenomena in networks of Josephson junctions, PHYS, 1995.04.13, cum laude, *prof.dr.ir. J.E. Mooij*

2541 Christianus Bernardus Maria te Stroet, Calibration of stochastic groundwater flow models. Estimation of system noise statistics and model parameters, MATH, 1995.04.13, *prof.dr. G.J. Olsder, prof.dr.ir. A.W. Heemink, prof.dr. G. de Marsily*

2542 Robert Moene, Application of chemical vapour deposition in catalyst design. Development of high surface area silicon carbide as catalyst support, CHEM, 1995.04.18, cum laude, *prof.dr. J.A. Moulijn, prof.dr. J. Schoonman*

2543 Zi Wen Dong, High- T_c superconducting thin film devices, PHYS, 1995.04.18, *prof.dr.ir. J.E. Mooij*

2544 Godfried Anyumba, Kisumu Town: history of the built form, planning and environment: 1890-1990, ARCH, 1995.04.24, *prof.dr.ir. H. Priemus, prof. G.K. King Oriah*

2545 Victor Otto de Haan, ROG A Neutron reflectometer at IRI, PHYS, 1995.04.24, *prof.dr.ir. L.A. de Graaf*

2546 Stefan Marcus Verbrugh, Development of a single electron turnstile as current standard, PHYS, 1995.04.25, *prof.dr.ir. J.E. Mooij*

2547 Franciscus Henri Cornelis de Jongh, Ventilation modelling of the human lung, LIFE, 1995.04.25, *prof.dr.ir. J.A. Steketee, prof.dr. L. Deen*

2548 Jan Remmert Pels, Nitrous oxide in coal combustion, CHEM, 1995.05.02, *prof.dr. J.A. Moulijn*

2549 Olaf Kievit, Development of a laser mass spectrometer for aerosols, CHEM, 1995.05.02, *prof. M.Sc. B. Scarlett*

2550 Wiebe Visser, Oxygen requirements of fermentative yeasts, LIFE, 1995.05.02, *prof.dr. J.G. Kuenen*

2551 Patricia Adriana Maria Arts, Aspects of nitrification and denitrification in pure and mixed cultures, LIFE, 1995.05.08, *prof.dr. J.G. Kuenen*

2552 Shengyu Jin, Synthesis and characterization of side-chain liquid crystalline polyesters and polyethanes, CHEM, 1995.05.08, *prof.dr. W.J. Mijs*

2553 Wate Thewis Bakker, Mixed oxidant corrosion in nonequilibrium syngas at 540 C, MATE, 1995.05.08, *prof.dr. J.H.W. de Wit*

2554 Richard Peter Essenius, Adaptive computer-based training in engineering education, ELEC, 1995.05.09, *prof.ir. G. Honderd, prof.dr. W.M.G. Jochems*

2555 Marcel Dick Mossel, Thermal stratification of turbulent air flows in a rectangular channel, PHYS, 1995.05.09, *prof.ir. C.J. Hoogendoorn*

2556 Leendert Joost Seijbel, An instrument for positron micro-analysis, PHYS, 1995.05.09, *prof.dr.ir. P. Kruit*

2557 Paul Boogerd, Dynamic compaction of ceramics, MATE, 1995.05.15, *prof.dr. J. Schoonman*

2558 Arjan Huib Buist, Information extraction from multiple transmission electron microscopy images, PHYS, 1995.05.16, *prof.dr.ir. P. Kruit, prof.dr.ir. A. van den Bos*

2559 Huibrecht Bastiaan Jasperse, A macro process planning system for machining operations, MECH, 1995.05.16, *prof.ir. L.N. Reijers*

2560 Antonius Nicolaas Hesselmans, 'De ware ingenieur' Clarence Feldmann, Delfts hoogleraar en grondlegger van de provinciale elektriciteitsvoorziening, ELEC, 1995.05.22, *prof.ir. L. van der Sluis, prof.dr.ir. H.W. Lintsen*

2561 Wouter Roest, Magnetic flux in high-T_c superconductors. A neutron depolarization study, PHYS, 1995.05.22, *prof.dr.ir. L.A. de Graaf, prof.dr. J.J.M. Franse*

2562 Jan Peter van Houten, On the control of powder compact microstructure through methods of wet consolidation, CHEM, 1995.05.22, *prof.dr. G. Frens*

2563 Didier Johannes Richard van Nee, Multipath and multi-transmitter interference in spread-spectrum communication and navigation systems, ELEC, 1995.05.23, cum laude, *prof.dr.ir. D. van Willigen*

2564 Vincent Peter Paul Swarte, Innoveren met idealen en gevestigde belangen. Stimulering en belemmering van innovatie van technische hulpmiddelen voor gehandicapten, IDEE, 1995.05.23, *prof.dr.ir. J.A. Buijs, prof.ir. W.C.L. Zegveld*

2565 Paul Hubertus Wilhelmus Vercoulen, Electrostatic processing of particles. A tool in particle technology, CHEM, 1995.05.23, *prof. M.Sc. B. Scarlett*

2566 John Peter Kuntz, Rolling link mechanisms, MECH, 1995.05.29, *prof.ir. J.C. Cool*

2567 Hans Peter Alexander Calis, Development of dustproof, low pressure drop reactors with structured catalyst packings the bead string reactor and the zeolite-covered screen reactor, CHEM, 1995.05.29, *prof.ir. C.M. van den Bleek*

2568 André van der Put, Adsorption and the adhesion of polymer melts on metal surfaces, CHEM, 1995.05.30, *prof.dr. G. Frens*

2569 Robertus Adrianus Eek, Control and dynamic modelling of industrial suspension crystallizers, MECH, 1995.06.02, cum laude, *prof.dr. O.H. Bosgra*

2570 Gerard Frederik Kamst, Filtration and expression of palm oil slurries as a part of the dry fractionation process, MECH, 1995.06.06, *prof.dr.ir. J. de Graauw, prof.dr.ir. P.J.A.M. Kerkhof*

2571 Reinier Jozef Johannes Jansen, Modified carbon supported heteropoly acid catalysts, CHEM, 1995.06.06, *prof.dr.ir. H. van Bekkum*

2572 Antonio Gavino Chessa, Conditional simulation of spatial stochastic models for reservoir heterogeneity, MATH, 1995.06.06, *prof.dr. M.S. Keane, prof.drs. F.R. van Veen*

2573 Klaus Heinrich Brodt, Thermal insulations: cfc-alternatives and vacuum insulation, PHYS, 1995.06.12, *prof.dr. C.J. Hoogendoorn*

2574 Marcel Trijssenaar, Hydrogenated amorphous silicon an p/i-heterojunctions. Optical and electrical modeling and technologie as applied to solar cells, ELEC, 1995.06.12, *prof.dr. M. Kleefstra, prof.dr. C.I.M. Beenakker*

2575 Bart Jan Kooi, Iron-nitrogen phases: Thermodynamics, long-range order and oxidation behaviour, MATE, 1995.06.12, *prof.dr.ir. E.J. Mittemeijer*

2576 Antonieta Humbelina Angulo Mendivil, On the conceptual feasibility of a CAAD-CAAI integrated decision support system, ARCH, 1995.06.13, *prof.dr. A.H. Bridges*

2577 Christianus Adrianus Petrus Maria van Gurp, Characterization of seasonal influences on asphalt pavements with the use of falling weight deflectometers, CIVI, 1995.06.13, *prof.dr.ir. A.A.A. Molenaar, prof. R.L. Lytton*

2578 Paul Alphons Hubert Marie Mantelaers, Organisatie-ontwerp van de informatievoorziening, INFO, 1995.06.13, *prof.drs. B.K. Brussaard, prof.dr. Th.M.A. Bemelmans*

2579 Corstianus de Wijs, Information systems management in complex organizations, INFO, 1995.06.14, *prof.dr.ir. M. Looijen*

2580 Russell James Hugh Wanhill, Damage tolerance engineering property evaluations of aerospace aluminium alloys with emphasis on fatigue crack growth, MATE, 1995.06.14, *prof.dr.ir. J. Schijve*

2581 Cunzhen Zhuo, Absorption heat transformer with TFE-Pyr as the working pair, MECH, 1995.06.14, *prof.dr. H. van der Ree*

2582 Gerrit van den Berg, A finite strain shell model for the analysis of moderately thick-walled tubes, MECH, 1995.06.16, *prof.dr.ir. L.J. Ernst*

2583 Marian Nelia Webster, Lateral scaling effects in high-frequency bipolar transistors, PHYS, 1995.06.16, *prof.dr.ir. S. Radelaar*

2584 Augustinus Jozef Maria van der Vaart, Arm movements in operating rotary controls, IDEE, 1995.06.16, *prof.dr.Eur Ing J.M. Dirken, prof.dr. R.H. Rozendal*

2585 Tommy Anthony Kwa, Integrated silicon spectrometer fabricated using bulk-macromachining techniques, PHYS, 1995.06.19, cum laude, *prof.dr.ir. S. Middelhoeck*

- 2586 Junbiao Lai**, Non-linear time-dependent deformation behaviour of high density polyethylene, MATH, 1995.06.19, *prof.dr.ir. A. Bakker*
- 2587 Klaas Gerbrand Druif**, Defects in VUV irradiated MOS capacitors, ELEC, 1995.06.19, *prof.dr. P. Balk, prof.dr.ir. E.H.A. Grammman*
- 2588 Anthonius Wilhelm Maria Kok**, Lumped pulses and discrete displacements. A physical way to understand numerical dynamics, CIVI, 1995.06.20, *prof.dr.ir. J. Blaauwendraad*
- 2589 Marcus Clemens Maria Hensing**, Production of extracellular proteins by *Kluyveromyces* yeasts, LIFE, 1995.06.20, *prof.dr. J.G. Kuenen*
- 2590 René Jager**, Fuzzy logic in control, ELEC, 1995.06.26, *prof.ir. H.B. Verbruggen*
- 2591 Paul Pieter Stroomer**, Turbulence and OH structures in flames, PHYS, 1995.06.26, *prof.ir. C.J. Hoogendoorn*
- 2592 Petrus Johannes de Wit**, Liquefaction of Cohesive Sediments caused by waves, CIVI, 1995.06.26, *prof.dr.ir. J.A. Battjes*
- 2593 Johannes Hendrikus Gerla**, Modelling, measurement and manipulation of crystallizers. The role of classifiers and hydrodynamics, CHEM, 1995.06.27, *prof. M.Sc. B. Scarlett, mu.prof.dr.ir. G.M. van Rasmalen*
- 2594 Lodewijk Helena Jozef Absil**, Analysis of the laser doppler measurement technique for application in turbulent flows, AERO, 1995.06.27, *prof.dr.ir. J.L. van Ingen*
- 2595 Hoang Ell Jeng**, A dialogical model for participatory design, ARCH, 1995.06.27, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 2596 Bernardus Johannes Catharina Maria Rutten**, On medium distance intermodal rail transport, MECH, 1995.06.29, *prof.ir. M. van Holst*
- 2597 Maria Christina de Zoete**, Lipase- and protease-catalyzed transformations with unnatural acyl acceptors, CHEM, 1995.06.29, *prof.dr. R.A. Sheldon*
- 2598 Marcel Petrus Johannes Gerardus Claessens**, Program evaluation in innovating an engineering curriculum, SCGE, 1995.06.29, *prof.dr. W.M.G. Jochems*
- 2599 Diederik Timotheus Janssen**, The application of model-based image processing to the interpretation of maps, PHYS, 1995.09.05, *prof.dr. I.T. Young*
- 2600 Katja Karin Geerinck**, Far infrared saturation spectroscopy in semiconductors, PHYS, 1995.09.05, *prof.dr. W.Th. Wenckebach*
- 2601 Huig de Waardt**, High capacity 1300 nanometer optical transmission, ELEC, 1995.09.05, *prof.dr. B.H. Verbeek*
- 2602 Hao-Ming Zhou**, Towards an operational risk assessment in flood alleviation. Theory, operationalization and application, CIVI, 1995.09.08, *prof.ir. A.A.J. Pols, prof.dr.ir. J.K. Vrijling*
- 2603 Ronaldus Maria Aarts**, On the design and psychophysical assessment of loudspeaker systems, PHYS, 1995.09.11, *prof.dr.ir. F.A. Bilsen*
- 2604 Arie Wiekert Levering**, Interphases in zirconium silicate filled high density polyethylene and polypropylene, CHEM, 1995.09.11, *prof.dr.ir. A. de Posthuma de Boer*
- 2605 Elisabeth Carolien van de Stadt**, Problem-directed decomposition of Bayesian belief networks, ELEC, 1995.09.12, *prof.dr.ir. E. Backer*

2606 Richard Oosting, Toward a new durable and environmentally compliant adhesive bonding process for aluminium alloys, MATE, 1995.09.12, *prof.ir. L.B. Vogelesang*

2607 Hendrik Corporaal, Transport triggered architectures. Design and evaluation, INFO, 1995.09.13, cum laude, *prof.dr.ir. A.J. van de Goor*

2608 Olav Schettler, Encapsulating tools into an EDA framework, INFO, 1995.09.13, *mu.prof.Dr.-Ing.Habil. W. Gerhardt*

2609 Erwin Johannes Martinus Giling, Crosswell seismic tomography and migration, PHYS, 1995.09.13, *prof.dr.ir. A.J. Berkhout*

2610 Andrej Krivda, Recognition of discharges. Discrimination and classification, ELEC, 1995.09.18, *prof.dr.ir. F.H. Kreuger*

2611 Johannes Bernardus Gerardus Anthonius Havermans, Environmental influences on the deterioration of paper, CHEM, 1995.09.18, *prof.dr.ir. H. van Bekkum*

2612 Ji Dong Chen, Liquid phase oxidations over chromium- and related metal-substituted molecular sieve catalysts, CHEM, 1995.09.18, *prof.dr. R.A. Sheldon*

2613 UDO Fromm, Partial discharge and breakdown testing at high DC voltage, ELEC, 1995.09.19, *prof.dr.ir. F.H. Kreuger*

2614 Paulus Petrus Maria Hekkert, Artful Judgements. A psychological inquiry into aesthetic preference for visual patterns, IDEE, 1995.09.19, *mu.prof.dr. G.J.F. Smets*

2615 Daoping Li, Analysis, design and fabrication of tapered integrated optical structures. Implementation of the fully vectorial 3D beam propagation method, PHYS, 1995.09.19, *prof.dr.ir. H.J. Frankena*

2616 Paul Franciscus Maria de Groot, Seismic reservoir characterisation employing factual and simulated wells, GEOS, 1995.09.20, *prof.ir. K.J. Weber, prof.dr.ir. J.T. Fokkema*

2617 Jurgen Edwin den Hartog, A framework for knowledge-based map interpretation, ELEC, 1995.09.25, *prof.dr.ir. E. Backer*

2618 Adriana Anthonia Vinke, English as the medium of instruction in Dutch engineering education, SCGE, 1995.09.25, *prof.dr. W.M.G. Jochems*

2619 Ronald Johannes Hultermans, Selective catalytic reduction of NO_x from diesel engine exhaust using injection of urea, CHEM, 1995.09.25, *prof.ir. C.M. van den Bleek*

2620 Marja Geessiena Elsinga, Een eigen huis voor een smalle beurs: het ideaal voor bewoner en overheid?, SCGE, 1995.09.26, cum laude, *prof.dr.ir. H. Priemus, prof.dr. J. van Weesep*

2621 Timotheus Willem Johannes Peeters, Numerical modeling of turbulent natural-gas diffusion flames, PHYS, 1995.09.26, *prof.ir. C.J. Hoogendoorn, prof.dr. D.J.E.M. Roekaerts*

2622 Robert Eduard Uittenbogaard, The importance of internal waves for mixing in a stratified estuarine tidal flow, MECH, 1995.09.26, *prof.dr.ir. F.T.M. Nieuwstadt*

- 2623 Robertus Petrus van Kampen**, Bulk-micromachined capacitive servo-accelerometer, ELEC, 1995.09.28, *prof.dr.ir. S. Middelboek*
- 2624 Roald Gunnar van Borselen**, Removal of surface-related multiples from marine seismic data, GEOS, 1995.09.28, *prof.dr.ir. J.T. Fokkema, prof.dr.ir. P.M. van den Berg*
- 2625 Karel Olav ten Bosch**, Design flow management in CAD frameworks, ELEC, 1995.10.02, *prof.dr.ir. P.M. Dewilde*
- 2626 Lucas Cornelius Jacobs**, Characterisation of the passive film on iron-chromium alloys by ellipsometry and electrochemical impedance spectroscopy, MATE, 1995.10.02, *prof.dr. J.H.W. de Wit*
- 2627 Hendrik Jonkers**, Performance analysis of parallel systems: a hybrid approach, ELEC, 1995.10.02, *prof.ir. G.L. Reijns*
- 2628 Homayoun Nikookar**, Wireless channel modeling and code division multiple access for indoor communications, ELEC, 1995.10.03, *prof.dr.ir. L.P. Ligthart*
- 2629 Gerrit Johan Keesman**, Multi-program video data compression, ELEC, 1995.10.03, *prof.dr.ir. J. Biemond*
- 2630 Nijs Cornelis van der Vaart**, Single electron transport and quantum confinement in semiconductor nanostructures, PHYS, 1995.10.03, *prof.dr.ir. J.E. Mooij*
- 2631 Jerome Allen Truax**, Linking laboratory and in situ activation analysis of rock-forming elements using a 14 MeV neutron source, GEOS, 1995.10.06, *prof.dr. P.J.M. Ypma, prof.ir. M. Peeters*
- 2632 Aleksandar Zigic**, Equalization of linear time-dipersive intra- and interbuilding radio data channels, ELEC, 1995.10.06, *prof.dr. J.C. Arnbak*
- 2633 Govardus Adrianus Hubertus de Jong**, Structural and mechanistic aspects of quinohaemoprotein ethanol dehydrogenase from comamonas testosteroni, CHEM, 1995.10.06, *prof.dr.ir. J.A. Duine*
- 2634 Geurt Jongbloed**, Three statistical inverse problems. Estimators-algorithms-asymptotic, MATH, 1995.10.09, *prof.dr. P. Groeneboom*
- 2635 Marc Jacco van Genderen**, Decomposition of iron-based martensites: redistribution of interstitial atoms and precipitation, MATE, 1995.10.09, *prof.dr.ir. E.J. Mittemeijer*
- 2636 Petrus Hendrikus Hyacinthus Rongen**, Structure and properties of grain boundaries in ordered alloys, MATE, 1995.10.10, *prof.dr.ir. E.J. Mittemeijer*
- 2637 Marcel Hyacinthus Maria Nico Senden**, Metal-ligand interactions in xylem transport: behaviour of cadmium-citrate complexes, CHEM, 1995.10.10, *prof.dr.ir. M. de Bruin, prof.dr. C. Kollöffel*
- 2638 Mathilde Marianne Bekker Bekker**, An analysis of user interface design practice: towards support for team communication, IDEE, 1995.10.10, *prof.dr.ir. R. den Buurman*
- 2639 Jean Marie Guillaume Gérard de Nivelles**, Ordering refinements of resolution, MATH, 1995.10.12, cum laude, *prof.dr. S.C. van Westrheenen*
- 2640 Richard Paul Gerhard Müller**, An experimental and analytical investigation on the fatigue behaviour of fuselage riveted lap joints, AERO, 1995.10.12, *prof.dr.ir. J. Schijve, prof.ir. L.B. Vogetesang*

2641 Yan Xiong Li, Plasma etching for integrated silicon sensor applications, ELEC, 1995.10.16, *prof.dr.ir. S. Middelhoek*

2642 Marian Bartek, Selective epitaxial growth for smart silicon sensor applications, ELEC, 1995.10.16, *prof.dr.ir. S. Middelhoek*

2643 Mao Tian, Characterization of miniature dielectric-filled open-ended waveguide antennas, ELEC, 1995.10.16, *prof.dr.ir. L.P. Ligthart*

2644 Bart Johannes Beers, FRANK, the design of a new landsurveying system using panoramic images, GEOD, 1995.10.23, *prof.dr.ir. M.J.M. Bogaerts*

2645 Pieter Tjeerd Por, Neutron depolarisation in magnetic recording materials, PHYS, 1995.10.23, *prof.dr.ir. L.A. de Graaf, prof.dr. R.W. Chantrell*

2646 Cornelia Ariadne Bakker, Environmental information for industrial designers, IDEE, 1995.10.23, *prof.dr. Ph.J. Vergragt, prof.dr.ir. J.C. Brezet*

2647 Jeroen Michel van der Velden, Samenwerken op afstand, ADMI, 1995.11.03, *prof.dr. J.H.T.H. Andriessen*

2648 Camiel Heffels, On-line particle size and shape characterization by narrow angle light scattering, CHEM, 1995.11.06, *prof. M.Sc. B. Scarlett*

2649 Li Zhang, Time-dependent behaviour of polymers and unidirectional polymeric composites, MECH, 1995.11.06, *prof.dr.ir. L.J. Ernst*

2650 Eugène Eduard Edwin Frietman, Opti-electronic processing & networking: a design study, PHYS, 1995.11.06, *prof.dr. I.T. Young*

2651 Koen Jacobus Johannes Maria Zaal, Residual strength analysis of structures in aluminium alloy and fibre metal laminates, AERO, 1995.11.07, *prof.dr. J. Arbocz, prof.dr.ir. J. Schijve* M.A
(27/04/2024)

2652 René Hendrik Petrus Jansen, Construction of orthogonal polynomials associated with time series and random fields, MATH, 1995.11.07, *prof.dr. C.L. Scheffer*

2653 Erik Mostert, Commissions for environmental impact assessment. Their contribution to the effectiveness of environmental impact assessment, ADMI, 1995.11.07, *prof.dr. J. Wessels*

2654 Burkhard Lau, Approaching the problem of access control in distributed, heterogeneous and autonomous information systems, INFO, 1995.11.13, *mv.prof.Dr.-Ing.Habil. W. Gerhardt*

2655 Marcel Mourits, Design of a distribution planning support system, MECH, 1995.11.13, *prof.dr.ir. J.J.M. Evers, prof.dr.ir. H.G. Stassen*

2656 Gerardus Joseph Wilhelmus van Bussel, The aerodynamics of horizontal axis wind turbine rotors explored with asymptotic expansion methods, CIVI, 1995.11.14, *prof.dr. J.B. Dragt, prof.dr.ir. A.J. Hermans*

2657 Erwin Adolf Hijzen, Design and fabrication of silicon drift detectors, PHYS, 1995.11.14, *prof.dr.ir. C.W.E. van Eijck*

2658 Peter Jan Willem van den Engel, Thermisch comfort en ventilatie-efficiency door inducerende ventilatie via de gevel, ARCH, 1995.11.14, *prof.ir. J. van Stigt*

2659 Tanveer Ahsan, Proces analysis and optimization of direct horizontal-flowroughing filtration, PHYS, 1995.11.17, *prof.dr.ir. G.J.F.R. Alaerts*

2660 Jacobus Leendert Verolme, The development of a design tool for fiber metal laminate compression panels, AERO, 1995.11.20, *prof.dr. J. Arbocz, prof.ir. L.B. Vogelesang*

2661 Hubertus Cornelis Langelaan, Rheological studies of thermotropic liquid crystalline polymers, CHEM, 1995.11.20, *prof.dr.ir. A. de Posthuma de Boer*

2662 Robert Korbee, Regenerative desulfurization in an interconnected fluidized bed system, CHEM, 1995.11.20, *prof.ir. C.M. van den Bleek*

2663 Ruairi Seosamh O'meadhra, Modelling of the kinetics of suspension chrySTALLIZERS. A new model for secondary nucleation, CHEM, 1995.11.21, *mu.prof.dr.ir. G.M. van Rosmalen*

2664 Johannes Petrus Adrianus Neeft, Catalytic oxidation of soot. Potential for the reduction of diesel particulate emissions, CHEM, 1995.11.21, *prof.dr. J.A. Moulijn*

2665 Jan Zuidema, Square and slant fatigue crack growth in Al 2024, MATE, 1995.11.21, *prof.dr.ir. J. Schijve, prof.dr.ir. A. Bakker*

2666 Mattheus Jakob van Koetsveld, Product data interchange states, CIVI, 1995.11.24, *prof.dr.ir. J. Blaauwendraad, prof.dr.ir. P. van der Veer*

2667 Frank Auer, Combined electromagnetic suspension and propulsion for positioning with sub-micrometer accuracy, MECH, 1995.11.27, *prof.dr.ir. H.F. van Beek*

2668 Marianna Voulgaris, Prediction and verification of hydrocarbon liquid drop out of lean natural gas, CHEM, 1995.11.27, *prof.dr.ir. J. de Swaan Arons*

2669 Meinard Jacobus Dijst, Het elliptisch leven. Actieruimte als integrale maat voor bereik en mobiliteit, HASS, 1995.11.27, *prof.dr. J. den Druak, prof.ir. P. Hakkesteegt*

2670 Robertus Johannes Mersel, Management of distributed data in distributed environments, INFO, 1995.11.28, *prof.dr.ir. M. Looijen*

2671 Emmanuel David Lucas Frimout, Fast playback of helical-scan recorded MPEG video, ELEC, 1995.11.28, *prof.dr.ir. J. Biemond*

2672 Otto Korneles Bergsma, Three dimensional simulation of fabric draping, AERO, 1995.11.28, *prof.dr.ir. Th. de Jong*

2673 Valetijn Victor de Leeuw, Phase behaviour of selected nitrogen + hydrocarbon systems. A study for enhanced oil recovery in North Sea fields by nitrogen flooding, CHEM, 1995.12.01, *prof.dr.ir. J. de Swaan Arons*

2674 Marcellinus Joannes Theodorus Reinders, Model adaptation for image coding, ELEC, 1995.12.01, *prof.dr.ir. E. Backer*

2675 Petrus Johannes Leonardus van Beek, Edge-Based image representation and coding, ELEC, 1995.12.04, *prof.dr.ir. E. Backer*

2676 Laurens Herman Jozef Bierens, Architectures for real-time on-board synthetic aperture radar processing, ELEC, 1995.12.04, *prof.dr.ir. P.M. Dewilde*

2677 Ireneusz Karkowski, Performance driven synthesis of digital systems, ELEC, 1995.12.05, *prof.dr.ir. R.H.J.M. Otten*

2678 Fons Jozef Verbeek, Three-Dimensional reconstruction of biological objects from serial sections including deformation correction, *PHYS.* 1995.12.05, *prof.dr. I.T. Young, prof.dr. W.H. Lamers*

2679 Gerbrand Bastiaan van der Graaf, Mould fillings for thin-wall metal castings, *PHYS.* 1995.12.06, *prof.dr.ir. H.E.A. van den Akker, prof.ir. L. Katgerman*

2680 Joannes Bastiaan Simon Conijn, Enkele financieel-economische grondslagen van de volkshuisvesting, *ARCH.* 1995.12.07, *prof.dr.ir. H. Priemus*

2681 Gerardus Wilhelmus Adrianus Maria van der Heijden, Applications of image analysis in plant variety testing, *PHYS.* 1995.12.07, *prof.dr. I.T. Young*

2682 Henricus Antonius Maria Staarink, Sitting posture, comfort and pressure, *IDEE.* 1995.12.07, *prof.dr. Eur Ing J.M. Dirken*

2683 Marcus Hans Wilhelm Bonse, Capacitive position transducers. Theoretical aspects and practical applications, *MECH.* 1995.12.08, *prof.dr.ir. H.F. van Beek*

2684 Hendrik Lammers, Synthesis and coordination behaviour of N-alkylamino sugars and derivatives, *CHEM.* 1995.12.11, *prof.dr.ir. H. van Bekkum*

2685 Hendrik Josephus Witteveen, The response of a uniform jig bed in terms of the porosity distribution, *GEOS.* 1995.12.11, *prof.ir. W.L. Dalmijn*

2686 Hendrik Marie Juliana Johan Snelders, Subjectivity in the consumer's judgement of products, *IDEE.* 1995.12.11, *prof.dr. W.M. Oppedijk van Veen*

2687 Hari Muhammad, Identification of turboprop thrust from flight test data, *AERO.* 1995.12.12, *prof.dr.ir. J.A. Mulder, prof.dr.ir. O.H. Gerlach*

2688 Casper Rudolph Johannes Willems, A dielectric study of melting and crystallization of semi-rigid and flexible-chain polymers, *MATE.* 1995.12.12, *prof.dr.ir. J. van Turnhout*

2689 Marcel Roland Alexander van Gent, Wave interaction with permeable coastal structures, *CIVI.* 1995.12.12, *prof.ir. K. d'Angremond*

2690 Gerardus Johannes de Vreede, Facilitating organizational change. The participative application of dynamic modelling, *ADMI.* 1995.12.15, *prof.dr. H.G. Sol*

2691 Cornelis Adrianus Johannes Robertus Vermeer^{en}, The residual strength of fibre metal laminates, *MATE.* 1995.12.18, *prof.dr.ir. J. Schijve, prof.ir. L.B. Voegelans*

2692 Theodores van Walsum, Selective visualization on curvilinear grids, *INFO.* 1995.12.18, *prof.dr.ir. F.W. Jansen, prof.dr.ir. P. Wesseling*

2693 Gerardus Petrus Krielaart, Primary ferrite formation from supersaturated austenite, *MATE.* 1995.12.18, *prof.dr.ir. S. van der Zwaag*

2694 Jan Cornelis Verheul, Simulation and transformation techniques for rewrite systems, *INFO.* 1995.12.19, *prof.dr.ir. J. van Katwijk*

2695 Marcel Westerman, Real-time traffic data collection for transportation telematics, *INFO.* 1995.12.19, *prof.dr.ir. R. Hamerslag*

- 2696 Aurelia Maria Salomons**, Coloration and binaural decoloration of sound due to reflections, PHYS, 1995.12.20, *prof.dr.ir. F.A. Bilsen*
- 2697 Baoliang Sheng**, A new synthetic test circuit for ultra-high voltage circuit breakers, ELEC, 1995.12.21, *prof.ir. L. van der Sluis, prof.ir. G.C. Damstra*
- 2698 Eskil Dekker**, Interaction between algorithms and architectures in parallel computation, INFO, 1995.12.21, *prof.ir. M.S. Elzas, prof.dr.ir. A. van den Bos*
- 2699 Jan Richard Kraayeveld**, Electromigration studies on Al (alloy) thin film conductors by means of 1/f noise measurements and high-resolution resistance experiments, PHYS, 1995.12.22, *prof.dr.ir. S. Radelaar*
- 2700 Jan Adriaan van Hulst**, Mesoscopic phenomena in single crystalline bismuth systems, MATE, 1995.12.22, *prof.dr.ir. S. Radelaar, prof.dr. H.M. Jaeger*
- 2701 Vincent Steinebach**, Structural and mechanistic aspects of copper-quinoprotein amine oxidase from escherichia coli, LIFE, 1995.12.22, *prof.dr.ir. J.A. Duine*
- 2702 Benjamin Jansen**, Interior point techniques in optimization. Complementarity, sensitivity and algorithms, MATH, 1996.01.08, cum laude, *prof.dr. F.A. Lootsma, prof.dr. C.G.E. Boender*
- 2703 Jacob Marinus Jan den Toonder**, Drag reduction by polymer additives in a turbulent pipe flow: laboratory and numerical experiments, MECH, 1996.01.09, cum laude, *prof.dr.ir. F.T.M. Nieuwstadt*
- 2704 Huibert-Jan Verhoeven**, Smart thermal flow sensors, ELEC, 1996.01.15, *prof.dr.ir. J.H. Huijsing*
- 2705 Michiel Adriaan van Drunen**, Measurement and modeling of cluster formation, CHEM, 1996.01.16, *prof. M.Sc. B. Scarlett, mu.prof.dr.ir. G.M. van Rosmalen*
- 2706 Jean Paul Claessen**, Shaped by colour. A study on the effect of colour on the perceived shape of objects, IDEE, 1996.01.22, *mu.prof.dr. G.J.F. Smets*
- 2707 Gerrit André Barf**, Ruthenium-catalyzed epoxidation of unfunctionalized olefins: scope and limitations, CHEM, 1996.01.22, *prof.dr. R.A. Sheldon*
- 2708 Marinus Eric Donselaar**, Barrier island coasts and relative sea level rise: preservation potential, facies architecture and sequence analysis, GEOS, 1996.01.23, *prof.dr. F.R. van Veen*
- 2709 Koert van der Lingen**, Bipolar transistors for use in monolithic bandgap references and temperature transducers, ELEC, 1996.01.29, *prof.dr.ir. A.H.M. van Roermund*
- 2710 Pieter de Jong**, Modelling and optimization of thermal treatments in the dairy industry, MECH, 1996.01.29, *prof.dr.ir. J. de Gnaauw, prof.ir. C.M. van den Bleek*
- 2711 Christiaan Jacob Quaak**, Rheology of partially solidified aluminium alloys and composites, MATE, 1996.01.30, *prof.ir. L. Katgerman*
- 2712 Paulus Franciscus Anna Buijsen**, Electron beam induced cationic polymerization with onium salts, CHEM, 1996.02.05, *prof.dr. W.J. Mijls*
- 2713 Jan Hoogerbrugge**, Code generation for transport triggered architectures, INFO, 1996.02.05, *prof.dr.ir. A.J. van de Goor*

2714 Martijn de Jong, A polarized neutron study of amorphous $\text{Fe}_{10}\text{Ni}_{40}\text{B}_{50}$, MATE, 1996.02.06, *prof.dr.ir. A. van den Beukel*

2715 Vincent Adriaan Nierstrasz, Marginal regeneration, CHEM, 1996.02.06, *prof.dr. G. Frens*

2716 Allard Willem Martinius, The sedimentological characterisation of labyrinthine fluvial reservoir analogues, GEOS, 1996.02.12, *prof.dr.s. F.R. van Veen*

2717 Tineke Mirjam Egyedi, Shaping standardization. A study of standards processes and standards policies in the field of telematic services, HASS, 1996.02.12, *prof.ir. C. de Jong*

2718 Ying Liu, A pattern directed approach towards. An object adaptive decision support environment for water resources management, INFO, 1996.02.12, *prof.dr. H. Koppelaar*

2719 Paulo José Brandão Barbosa Lourenço, Computational strategies for masonry structures, CIVI, 1996.02.19, cum laude, *prof.dr.ir. J. Blaauwendraad*

2720 Antonius Johannes Rosa Aendenroemer, Weld pool oscillation for penetration sensing and control, MATE, 1996.02.20, *prof.dr. G. den Ouden*

2721 Willem Gerrit Sloof, Internal stresses and microstructure of layer/substrate assemblies. Analysis of TiC and TiN coatings chemically vapour deposited on various substrates, MATE, 1996.02.22, *prof.dr.ir. E.J. Mittemeijer*

2722 Peter Wapperom, Nonisothermal flows of viscoelastic fluids. Thermodynamics, analysis and numerical simulation, MECH, 1996.02.26, *prof.dr.ir. B.H.A.A. van den Brule*

2723 Jozef Johannes Maria Baltussen, Tensile deformation of polymer fibres, PHYS, 1996.02.27, cum laude, *prof.dr.ir. F. Tuinstra*

2724 Jacek Andrzej Serafin, Finitary codes and isomorphisms, MATH, 1996.03.12, *prof.dr. M.S. Keane*

2725 Marie Francine Weegels, Accidents involving consumer products, IDEE, 1996.03.18, *prof.ing. A.H. Marinissen, prof.dr.s. J. Moraal*

2726 Stephen Alan Read, Function of urban pattern of urban function, ARCH, 1996.03.19, *prof.Dipl.-Ing. H.J. Rosemann*

2727 Vladan Babovic, Emergence, evolution, intelligence: hydroinformatics, CIVI, 1996.03.20, *prof.dr. M.B. Abbott*

2728 Gleb Valerevitch Vdovine, Adaptive mirror micromachined in silicon, ELEC, 1996.03.29, *prof.dr.ir. S. Middelhoek*

2729 Edo Erik Ole Roos zich noemde en schrijvende Lindgreen, A sense of secureness; approaches to information security, INFO, 1996.03.29, *prof.dr. I.S. Herschberg, prof.dr. M.E. van Biene-Hershey*

2730 Wouter Reh, Arcadia en Metropolis. Het landschapsexperiment van de verlichting, CIVI, 1996.03.29, *prof.dr.ir. F.M. Maas, prof.dr.ir. C.M. Steenberghe*

2731 Marco Matters, Single-electron and cooper pair transport in circuits of small tunnel junctions, PHYS, 1996.04.02, *prof.dr.ir. J.E. Mooij*

2732 Adrianus Cornelis Theodorus van Duin, Biogeochemical applications of a newly developed carbocation force field, CHEM, 1996.04.09, *prof.dr.ir. H. van Bekkum, prof.dr. J. W. de Leeuw*

- 2733 Marcel Zijlema**, Computational modelling of turbulent flow in general domains, MATH, 1996.04.09, *prof.dr.ir. P. Wesseling*
- 2734 Jan Keijzer**, Investigations of spatial effects in nuclear reactor kinetics, PHYS, 1996.04.15, *prof.dr.ir. H. van Dam*
- 2735 Franciscus Maria Leonardus van der Goes**, Low-cost smart sensor interfacing, ELEC, 1996.04.15, *prof.dr.ir. A.H.M. van Roermund*
- 2736 Erik Brakkee**, Domain decomposition for the incompressible Navier-Stokes equations, MATH, 1996.04.15, *prof.dr.ir. P. Wesseling*
- 2737 Ewout Norbert Jan Biezen**, Modelling underground coal gasification, GEOS, 1996.04.22, *prof.dr.ir. J. Hagoort*
- 2738 Sebastiaan Roderick in 't Hout**, High-temperature silicon sensors, ELEC, 1996.04.22, *prof.dr.ir. S. Middelboek*
- 2739 Marc Henri Huibrecht Hettema**, The thermo-mechanical behaviour of sedimentary rock: an experimental study, GEOS, 1996.04.23, *prof.ir. J.J. van der Vuurst de Vries*
- 2740 Arie Jan Cornelis van Gemund**, Performance modeling of parallel systems, ELEC, 1996.04.23, cum laude, *prof.ir. G.L. Reijns*
- 2741 Daniël Thaddeus Theodorus van Eijck**, Designing organizational coordination, ADMI, 1996.04.25, *prof.dr. H.G. Sol*
- 2742 Thomas Jan Cornelis van Terwisga**, Waterjet - hull interaction, MARI, 1996.04.25, cum laude, *prof.dr.ir. G. Kuiper*
- 2743 Xiaode Yu**, Time-varying system identification, J-lossless factorization and H_∞ control, ELEC, 1996.04.25, *prof.dr.ir. P.M. Dewilde*
- 2744 Erik Johan de Min**, De geoïde voor Nederland, GEOD, 1996.05.06, *prof.Dr.-Ing.Habil. R.A.P. Klees, prof.Dr.-Ing. R. Rummel*
- 2745 Marcello Stefano Rigutto**, Vanadium and titanium-containing molecular sieves. Synthesis, characterization and catalytic properties, CHEM, 1996.05.06, *prof.dr.ir. H. van Bekkum*
- 2746 Albert Edmond Holman**, A novel scanning tunneling microscope with inherent scan linearization, PHYS, 1996.05.06, *prof.dr.ir. F. Tuinstra*
- 2747 Gerard van Zee**, Counter current sorption using fiber sorbents, MARI, 1996.05.07, *prof.dr.ir. J. de Graauw, prof.dr.ir. A.W. Veenman*
- 2748 Gualbertus Hendrikus Petrus Oude Essink**, Impact of sea level rise on groundwater flow regimens. A sensitivity analysis for the Netherlands, CIVI, 1996.05.07, *prof.dr.ir. J.C. van Dam*
- 2749 Nanne Jacob van der Zijpp**, Dynamic origin-destination matrix estimation on motorway networks, INFO, 1996.05.07, *prof.dr.ir. R. Hamerslag*
- 2750 Edgar Manfred Lawrence Peek**, Chloride pyrohydrolysis. Lixiviant regeneration and metal separation, CHEM, 1996.05.14, *prof.dr.ir. G. van Weert*
- 2751 Pieter Cornelis Held**, Functional design of data-flow networks, ELEC, 1996.05.20, *prof.dr.ir. P.M. Dewilde*

2752 Harald Erik Niklaus Bersee, Diaphragm forming of continuous fibre reinforced thermoplastics, AERO, 1996.05.20, *prof.dr.ir. Th. de Jong*

2753 Reint Johannes Niemeijer, Doppler-polarimetric radar signal processing, ELEC, 1996.05.20, *prof.dr.ir. L.P. Ligthart*

2754 Hermanus Ebertus Smorenburg, Microscopic dynamics of binary mixtures and quasi-colloidal systems, PHYS, 1996.05.21, *prof.dr.ir. L.A. de Graaf*

2755 Gerrit Jan Akkerman, Inductive inference, theory revision, and non-monotonic logic, INFO, 1996.05.21, *prof.dr. S.C. van Westrhenen, prof.dr. J.J.Ch. Meijer*

2756 Michaël Adrianus Johannes van der Stam, Computer assistance for the pre-design of charged particle optics, PHYS, 1996.05.28, cum laude, *prof.dr.ir. P. Kruit*

2757 Johannes Theodorus van der Linden, Automatic test pattern generation for three-state circuits, INFO, 1996.05.28, *prof.dr.ir. A.J. van de Goor*

2758 Jan Maarten van Noortwijk, Optimal maintenance decisions for hydraulic structures under isotropic deterioration, MATH, 1996.05.28, *prof.dr. R.M. Cooke*

2759 Christian Jan Bastiaan Jongeneel, The informatical world view. An inquiry into the methodology of computer science, INFO, 1996.06.04, *prof.dr. H. Koppelaar*

2760 Everhardus Hendrikus van Hamersveld, Flocculation of brewers' yeast. Quantification, modelling and control, LIFE, 1996.06.04, *prof.ir. K.C.A.M. Luyben*

2761 Xianhua Huang, Qualitative analysis of certain nonlinear differential equations: quadratic systems and delay equations, MATH, 1996.06.06, *prof.dr.ir. J.W. Reyn*

2762 Geert Jan Agur Sevink, Asymptotic seismic inversion, MATH, 1996.06.06, *prof.dr.ir. A.J. Hermans*

2763 Cornelis Johannes Leliveld, A fast Monte Carlo simulator for scattering in X-ray computerized tomography, PHYS, 1996.06.06, *prof.dr.ir. C.W.E. van Eijk*

2764 Stephanus Johannes Henricus Franciscus Arts, Ruthenium-catalysed oxidations of carbohydrates with molecular oxygen and hydrogen peroxide, CHEM, 1996.06.14, *prof.dr. R.A. Sheldon*

2765 Ronald Hogervorst, Design of low-voltage low-power CMOS operational amplifier cells, ELEC, 1996.06.14, *prof.dr.ir. J.H. Huijsing*

2766 Sharon Rose Donohoe, Vortex flow and vortex breakdown above a delta wing in high subsonic flow: an experimental investigation, AERO, 1996.06.14, *prof.dr.ir. P.G. Bakker*

2767 René Herman Maria Huijsmans, Mathematical modelling of the mean wave drift force in current. A numerical and experimental study, MATH, 1996.06.17, *prof.dr.ir. A.J. Hermans*

2768 Bastiaan Pieter de Hon, Transient cross-borehole elastodynamic signal transfer through a horizontally stratified anisotropic formation, ELEC, 1996.06.17, cum laude, *prof.dr.ir. P.M. van den Berg*

2769 Marco Eric Marcel de Winkel, Three-dimensional viscous flow patterns near a plane wall, AERO, 1996.06.17, *prof.dr.ir. P.G. Bakker, prof.dr.ir. J.W. Reyn*

2770 Hoyte Christiaan Raven, A solution method for the nonlinear ship wave resistance problem, MATH, 1996.06.19, cum laude, *prof.dr.ir. A.J. Hermans*

2771 Johan Stefan Erkelens, Autoregressive modelling for speech coding: estimation, interpolation and quantisation, PHYS, 1996.06.20, *prof.dr.ir. A. van den Bos*

2772 Aukje Gjaltema, Biofilm development: growth versus detachment, LIFE, 1996.06.20, *prof.dr.ir. J.J. Heijnen*

2773 Daniel-Puiu Poenar, Thin film colour sensors, ELEC, 1996.06.20, *prof.dr.ir. S. Middelhoek*

2774 Johannes Carolus Jansen, Side chain liquid crystalline polycarbonates. Synthesis, mesomorphic properties and dielectric and mechanical analysis, CHEM, 1996.06.24, *prof.dr. W.J. Mijs*

2775 Marcel van der Kraan, Techniques for the measurement of the flow properties of cohesive powders, CHEM, 1996.06.24, *prof. M.Sc. B. Scarlett*

2776 Viktor Emil van Reijswoud, The structure of business communication. Theory, model and application, INFO, 1996.06.24, *prof.dr.ir. J.L.G. Dietz, prof.dr. G.A.M. Widdershoven*

2777 Leonardus Cornelis Nicolaas de Vreede, HF silicon JCs for wide-band communication systems. Technology characterization, modelling, design, ELEC, 1996.06.25, cum laude, *prof.dr.ir. R.F.G. Baets*

2778 Willem Jan de Lange, Groundwater modeling of large domains with analytic elements, CIVI, 1996.06.25, *prof.dr.ir. J.C. van Dam*

2779 Adrianus Antonius Draad, Laminar-turbulent transition in pipe flow for Newtonian and non-Newtonian fluids, MECH, 1996.06.25, *prof.dr.ir. F.T.M. Nieuwstadt*

2780 Mark Pieter Helmsing, FCC catalysts testing in a novel laboratory riser reactor, CHEM, 1996.06.27, *prof.dr. J.A. Moulijn*

2781 Adolf Hendrik Willem Bos, Multidisciplinary design optimization of a second-generation supersonic transport aircraft using a hybrid genetic/gradient-guided algorithm, AERO, 1996.06.27, *prof.ir. E. Torenbeek*

2782 Ahmed ben Amor ben Ahmed Tarfaoui, Modelling the kinetics of reduction by temperature programming, CHEM, 1996.06.27, *prof.dr. J.A. Moulijn*

2783 Bert Pieter van Driënhuizen, Integrated electrostatic RMS-to-DC converter fabricated in a BIFET-compatible surface-micromachining process, ELEC, 1996.06.28, *prof.dr.ir. S. Middelhoek*

2784 Roelof Maarten Crevecoeur, Analogies in the microscopic behavior of superfluid and classical helium studied by neutron scattering, PHYS, 1996.06.28, *prof.dr.ir. L.A. de Graaf*

de Bruin-Hordijk

2785 Geertruida Johanna Hordijk, Domain structures in $(\text{NH}_4)_2\text{ZnCl}_4$, PHYS, 1996.06.28, *prof.dr.ir. F. Tuinstra*

2786 Timber Ivar Haaker, Quasi-steady modelling and asymptotic analysis of aeroelastic oscillators, MATH, 1996.09.03, *prof.dr.ir. J.W. Reyn, prof.dr.ir. P.G. Bakker*

2787 Ruggero Elia Hendrik Franich, Disparity estimation in stereoscopic digital images, ELEC, 1996.09.03, *prof.dr.ir. J. Biemond*

Woudenberg - van Oosterom

- 2788 Marjolein van Oosterom**, Enzymatic conversions of mono- and disaccharides using lipases and B-glycosidases, CHEM, 1996.09.03, *prof.dr. R.A. Sheldon*
- 2789 Xinrong Jiang**, Coulomb interactions in charged particle optical columns, PHYS, 1996.09.04, *prof.dr.ir. P. Kruit*
- 2790 Marcellinus Leonardus Jansen**, Integration of ion exchange chromatography with an enzymatic reaction, LIFE, 1996.09.05, *prof.ir. K.C.A.M. Luyben*
- 2791 Paulus Hendricus Johannes Josephus Swuste**, Occupational hazards, risks and solutions, SCGE, 1996.09.05, *prof.dr. A.R. Hale*
- 2792 Hans Einar Wensink**, Autoregressive model inference in finite samples, PHYS, 1996.09.05, *prof.dr.ir. A. van den Bos*
- 2793 Mathias Johannes Peter Maria Lemmens**, Structure-based edge detection. Delineation of boundaries in aerial and space images, GEOD, 1996.09.16, *prof.dr.ir. G.H. Ligerink, prof.dr.ir. E. Backer*
- 2794 Amro Mohamed Mahmoud Elfeki**, Stochastic characterization of geological heterogeneity and its impact on groundwater contaminant transport, CIVI, 1996.09.16, *prof.dr.ir. F.B.J. Barends*
- 2795 Jean Paul Janssens**, Characterisation, testing and deactivation of sulfided catalysts in the hydrodemetallisation of vanadyl-tetraphenylporphyrin, CHEM, 1996.09.17, *prof.dr. J.A. Moulijn, prof.dr.ir. S.T. Sie*
- 2796 Albertus van Mazijk**, One-dimensional approach of transport phenomena of dissolved matter in rivers, CIVI, 1996.09.17, *prof.dr.ir. M. de Vries*
- 2797 Garrelt Pieter van der Laan**, Charge transport in π - and σ -conjugated polymers, CHEM, 1996.09.17, *prof.dr. A. Hummel*
- 2798 Leonard Adryan de Looft**, A model for information systems outsourcing decision making, INFO, 1996.09.19, *prof.dr. B.K. Brussaard*
- 2799 Stefan van Baars**, Discrete element analysis of granular materials, CIVI, 1996.09.19, cum laude, *prof.dr.ir. A. Verruijt*
- 2800 Jacob Simon Faber**, Instrumentation for parallel-parallel coincidence electron spectroscopy, PHYS, 1996.09.19, *prof.dr.ir. P. Kruit*
- 2801 Theodorus Gerardus Maria Oosterlaken**, In situ characterization of CVD-processes by Raman scattering: determination of the kinetics of the hydrogen reduction of WF_6 , PHYS, 1996.09.23, *prof.dr.ir. S. Radelaar*
- 2802 Frank Bosveld**, Hierarchical video compression using SBC, ELEC, 1996.09.23, *prof.dr.ir. J. Biemond*
- 2803 Gerardus Petrus Cornelis van Oosterhout**, Wind-induced dynamic behaviour of tall buildings, CIVI, 1996.09.23, *prof.Dipl.-Ing. J.N.J.A. Vambersky*
- 2804 Gijsbertus Leonardus Eliza Monna**, Design of low-voltage integrated filter-mixer systems, ELEC, 1996.09.24, *prof.dr.ir. A.H.M. van Roermund*
- 2805 Eric Adrianus Franciscus Kraan**, ACOM: activity constraint object modeller. A development environment for linear programming based decision support systems, MECH, 1996.09.24, *prof.dr.ir. J.J.M. Evers*

- 2806 Leonard Henri Spiekman**, Compact integrated optical components for telecommunication networks, ELEC, 1996.09.24, *prof.dr. B.H. Verbeek*
- 2807 Robert Georg Wilfong**, Navigation and mobile telecommunications technologies for European road freight operations in the late 1990's, ELEC, 1996.09.30, *prof.dr.ir. D. van Willigen, prof.ir. C. de Jong*
- 2808 Reinhard Bernd Johann Teule**, Inkomen, doorstromen en uitsorteren: arm en rijk op de nederlandse grootsredelijke woningmarkt, ARCH, 1996.09.30, *prof.dr.ir. H. Priemus, prof.dr. F.M. Dieleman*
- 2809 Lóránt Antal Tavasszy**, Modelling European freight transport flows, INFO, 1996.09.30, *prof.dr.ir. R. Hamerslag*
- 2810 Mieke Boon**, Theoretical and experimental methods in the modelling of bio-oxidation kinetics of sulphide minerals, LIFE, 1996.10.01, cum laude, *prof.dr.ir. J.J. Heijnen, prof.ir. K.C.A.M. Luyben*
- 2811 Michel Louis Maria Vander Stappen**, Chaotic hydrodynamics of fluidized beds, CHEM, 1996.10.01, *prof.ir. C.M. van den Bleek, prof.dr. F. Takens*
- 2812 Albert ten Busschen**, Micromechanical modelling of the transverse strengths of unidirectional glass fibre reinforced polyester, MECH, 1996.10.01, *prof.dr.ir. L.J. Ernst*
- 2813 Branislav Petrusevski**, Algae and particle removal in direct filtration of Biesbosch water, CIVI, 1996.10.07, *prof.dr.ir. G.J.F.R. Alaerts*
- 2814 Fransiscus Xaverius Suryadi**, Soil and water management strategies for tidal lowlands in Indonesia, CIVI, 1996.10.07, *prof.ir. W.A. Segeeren*
- 2815 Xin-Xiang Jin**, Theory of carrier adjusted DGPS positioning approach and some experimental results, GEOD, 1996.10.14, *prof.dr. B.Sc. P.A. Cross, prof.Dr.-Ing.Habil. R.A.P. Klees*
- 2816 Gabriël Lodewijks**, Dynamics of belt systems, MECH, 1996.10.14, *prof.ir. M. van Holst, prof.dr.ir. P. Meijers*
- 2817 Arun Kr. Dev**, Viscous effects in drift forces on semi-submersibles, MARI, 1996.10.14, *prof.dr.ir. J.A. Pinkster*
- 2818 Arjen Gerard Jongepier**, Artificial neural networks applied to power systems, ELEC, 1996.10.15, *prof.ir. L. van der Sluis, prof.Dr.-Ing. H. Rijanto*
- 2819 Hector Jesus Martin Garcia**, Combined logical-numerical enhancement of real-time control of urban drainage networks, CIVI, 1996.10.15, *prof.dr. M.B. Abbott*
- 2820 Erik Henk Visscher**, Technology and applications of single-electron tunneling devices, PHYS, 1996.10.18, *prof.dr.ir. J.E. Mooij*
- 2821 Antonius Johannes Robert Maria Coenen**, On smart dither by absolute one-bit coding for noise-shaped PCM, ELEC, 1996.10.21, *prof.dr.ir. D. van Willigen*
- 2822 Ioan Ernest Lager**, Finite element modelling of static and stationary electric and magnetic fields, ELEC, 1996.10.22, *prof.dr.ir. P.M. van den Berg*
- 2823 Mqhele Enock-Hershal Dlodlo**, Digital land-mobile satellite communication systems. Overview, performance analysis and application, ELEC, 1996.10.28, *prof.dr. J.C. Arnbak*

2824 Eri Ito, Development of zeolite catalysts for NO_x reduction with NH_3 in diesel exhaust gas, CHEM, 1996.10.28, *prof.dr. C.M. van den Bleek, prof.dr.ir. H. van Bekkum*

2825 Yasser Ahmed ABD El-Rahman Ahmed El-deberky, Nonlinear transformation of wave spectra in the nearshore zone, CIVI, 1996.10.29, *prof.dr.ir. J.A. Battjes*

2826 Harm Eleveld, Hydrogen and helium in selected fusion reactor materials, PHYS, 1996.10.31, *prof.dr. A. van Veen, prof.dr.ir. H. van Dam*

2827 Henri Robert George Kenneth Hack, Slope stability probability classification SSPC, GEOS, 1996.10.31, *prof. D.G. Price*

2828 Victor Jan Terpstra, Batch scheduling within the context of intelligent supervisory process control, ELEC, 1996.10.31, *prof.ir. H.B. Verbruggen*

2829 Sybrand Pieter Tjallingii, Ecological conditions, LIFE, 1996.11.04, *prof.dr.ir. F.M. Maas, prof.dr. A. Faludi*

2830 Luisa Maria Gomes Pereira, A robust and adaptive matching procedure for automatic modelling of terrain relief, GEOD, 1996.11.05, *prof.dr.ir. G.H. Ligterink, prof.dr. M. Ehlers*

2831 Johannes Frans Lodewijk Goosen, Design and fabrication of a surface micromachined positioning device, ELEC, 1996.11.11, *prof.dr.ir. S. Middelhoek*

2832 Maria Elisabeth de Gunst, Knowledge-based interpretation of aerial images for updating of road maps, GEOD, 1996.11.11, *prof.dr.ir. M.G. Vosselman, prof.dr.ir. G.H. Ligterink*

2833 Marcellino Johannes den Exter, Exploratory study of the synthesis and properties of 6-, 8- and 10-ring tectosilicates and their potential application in zeolite membranes, CHEM, 1996.11.11, *prof.dr.ir. H. van Bekkum*

2834 Xue-Fen Zhang, Data assimilation in air pollution modelling, MATH, 1996.11.12, *prof.dr.ir. A.W. Heemink*

2835 Xiudong Peng, Modeling of indoor thermal conditions for comfort control in buildings, MECH, 1996.11.12, *prof.ir. H. van der Ree*

2836 Bastiaan Henricus Adrianus van Kleeff, Heat flow measurements for the study and control of biotechnological processes, LIFE, 1996.11.18, *prof.dr. J.G. Kuenen, prof.dr.ir. J.J. Heijnen*

2837 Eduardus Gerardus Maria Holweg, Autonomous control in dexterous gripping, ELEC, 1996.11.18, *prof.ir. G. Honderd*

2838 Rudolphus Johannes Anthonius Willibrordus Hosman, Pilot's perception and control of aircraft motions, AERO, 1996.11.18, *prof.dr.ir. H.G. Stassen, prof.ir. F.J. Abbink*

2839 Jens Andreas Foerster, Integrated micro vacuum tubes in silicon. The return of the "radio valve", ELEC, 1996.11.19, *prof.dr.ir. S. Middelhoek*

2840 Paulus Breedveld, The design of a man-machine interface for a space manipulator, MECH, 1996.11.19, cum laude, *prof.dr.ir. H.G. Stassen*

2841 Nico Maat, Wave-induced stress over the sea surface and the effect of breaking waves, CIVI, 1996.11.19, *prof.dr. J. Wieringa, prof.dr.ir. J.A. Battjes*

2842 Edward Julius Creijghton, New applications of zeolite beta in selective catalytic hydrogenations, CHEM, 1996.11.25, *prof.dr.ir. H. van Bekkum*

2843 Irina Popova, Gyrostabiliser for mobile antenna post, ELEC, 1996.11.25, *prof.ir. G. Hondert*

2844 Ningxu Han, Time dependent behaviour of high strength concrete, CIVI, 1996.11.25, *prof.dr.ir. J.C. Walraven*

2845 Kees Jan Kuijlaars, Detailed modeling of chemistry and transport phenomena in CVD reactors. Application to tungsten LPCVD, PHYS, 1996.11.26, *prof.dr.ir. H.E.A. van den Akker*

2846 Arkadiusz Tomasz Druzdzel, Friction and wear of Al-based MMCs under conditions of oscillatory relative motion, MECH, 1996.11.26, *prof.ir. A.W.J. de Gee*

2847 Mathijs Soede, The partial hydrogenation of aromatics, CHEM, 1996.11.26, *prof.dr. J.A. Moulijn*

2848 Bartholomeus Franciscus Adrianus van Hest, Laminar-turbulent transition in boundary layers with adverse pressure gradient, AERO, 1996.12.02, *prof.dr.ir. J.L. van Ingen*

2849 Viorica Simion, BiCMOS for speed, ELEC, 1996.12.02, *prof.dr.ir. R.H.J.M. Otten*

2850 Eric Alfons Gunnewegh, Zeolite catalysed aromatic acylations and related reactions, CHEM, 1996.12.02, *prof.dr.ir. H. van Bekkum*

2851 Jan Bredenoord, Planning en management voor de stad van de toekomst, ARCH, 1996.12.03, *prof.dr. P. Drewe*

2852 Remko Alef Bakker, Micromixing in chemical reactors models, experiments and simulations, PHYS, 1996.12.03, *prof.dr.ir. H.E.A. van den Akker, prof.dr. Dipl.-Ing. K. Hanjalić*

2853 Igor Valerievich Serov, Estimation of detector responses by midway forward and adjoint Monte Carlo coupling in nuclear systems, PHYS, 1996.12.03, *prof.dr.ir. H. van Dam*

2854 René Delfos, Experiments on air entrainment from a stationary slug bubble in a vertical tube, MECH, 1996.12.04, *prof.dr. R.V.A. Oliemans*

2855 Jacobus Petrus Franciscus Glas, Non-cellular wireless communication systems, ELEC, 1996.12.05, *prof.dr.ir. R.H.J.M. Otten*

2856 Dammes Hans van der Weijde, Impedance spectroscopy and organic barrier coatings; (im)possibilities, MATE, 1996.12.09, *prof.dr. J.H.W. de Wit*

2857 Cornelis Johannes Grootveld, Measuring & modeling of concentrated settling suspensions using electrical impedance tomography, CHEM, 1996.12.09, *prof. M.Sc. B. Scarlett, prof.dr.ir. G. van Weert*

2858 George Robert William de Kam, Op grond van beleid. Locaties voor sociale woningbouw, grondbeleid en ruimtelijke spreiding van welstand in en rond Den Haag, ARCH, 1996.12.10, *prof. Dipl.-Ing. H.J. Rosemann*

2859 Gerrit Klaas Boschloo, Solar energy conversion by porphyrin-sensitized titanium dioxide, CHEM, 1996.12.10, *prof.dr. J. Schoonman*

2860 Peter Bode, Instrumental and organizational aspects of a neutron activation analysis laboratory, CHEM, 1996.12.10, *prof.dr.ir. J.J.M. de Goeij, prof.dr.ir. M. de Bruin*

2861 Lucas Toepoel, Informatietechnologie in de prefabbouwindustrie. Onderzoek naar de basis voor een IT-beleid van de prefab-betonbranche, CIVI, 1996.12.11, *prof.ir. A.J. Hogeslag, prof.ir. Ch.J. Vos*

2862 Djoko Sardjadi, Enhanced conformal mapping method for airfoil design and analysis, AERO, 1996.12.11, *prof.dr.ir. J.L. van Ingen*

2863 Bambang Irawan Soemarwoto, Multi-point aerodynamic design by optimization, AERO, 1996.12.11, *prof.ir. J.W. Slooff, prof.dr.ir. J.L. van Ingen*

2864 Cornelis Mastenbroek, Wind-wave interaction, CIVI, 1996.12.12, *prof.dr.ir. J.A. Batrijes*

2865 Jacqueline Antoinette Jansen, Cathodes in molten carbonate fuel cells. Mathematical modeling and experimental characterization, MATE, 1996.12.12, cum laude, *prof.dr. J.H.W. de Wit*

2866 Jens Paulus Hannes, Mathematical modelling of circulating fluidized bed combustion, CHEM, 1996.12.12, *prof.ir. C.M. van den Bleek, prof.Dr-Ing. U. Renz*

2867 Erik Louw, Kantoorgebouw en vestigingsplaats. Een geografisch onderzoek naar de rol van huisvesting bij locatiebeslissingen van kantoorhoudende organisaties, ARCH, 1996.12.16, *prof.dr.ir. H. Priemus, prof.dr. P. Pellenbarg*

2868 Maria Petra Johanna van Deurzen, Selective oxidations catalyzed by chloroperoxidase, CHEM, 1996.12.16, *prof.dr. R.A. Sheldon*

2869 Hendrik Gezienus Albert Huizing, DMOS transistor dope profiling and transient enhanced boron diffusion experiments, ELEC, 1996.12.16, *prof.dr. M. Kleefstra, prof.dr.ir. J.W. Slotboom*

2870 Robert Willem van den Berg, Interplaying time scales in two-phase flows, PHYS, 1996.12.17, *prof.dr.ir. W.J. Beek, prof.dr.ir. H.E.A. van den Akker*

2871 Hugo André Lisette Corstjens, A physicochemical approach of capillary electrophoresis: towards method development, LIFE, 1996.12.17, *prof.ir. K.C.A.M. Luyben*

2872 Maarten Dirkzwager, A new axial cyclone design for fluid-fluid separation, MECH, 1996.12.17, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr.ir. J. de Graauw*

2873 Erik van Bracht, On production lines with blocking, MATH, 1996.12.20, *prof.dr. G.J. Olsder*

2874 Vedrana Kutija, Flow adaptive schemes, CIVI, 1996.12.20, *prof.dr. M.B. Abbott*

2875 Klaus Peter Werner, Surface processes in gas source molecular beam epitaxy of Si and SiGe alloys, MATE, 1996.12.20, *prof.dr.ir. S. Radelaar, prof.dr. P. Balk*

2876 Gerard Willem van der Linden, High performance robust manipulator motion control. Theory, tools and experimental implementation, MECH, 1997.01.06, *prof.ir. O.H. Bosgra*

- 2877 Lucas Antonius Maria van der Wielen**, A countercurrent adsorptive fluidized bed reactor for heterogeneous bioconversions, LIFE, 1997.01.07, cum laude, *prof.dr. K.C.A.M. Luyben*
- 2878 Arend Pieter Voskamp**, Microstructural changes during rolling contact fatigue. Metal fatigue in the subsurface region of deep groove ball bearing inner rings, MATE, 1997.01.08, *prof.dr.ir. E.J. Mittemeijer*
- 2879 James Edward Phillips**, High performance execution engines for instruction level parallel processors, INFO, 1997.01.09, *prof.dr. S. Vasiliadis*
- 2880 Robert Babuska**, Fuzzy modeling and identification, ELEC, 1997.01.14, cum laude, *prof.ir. H.B. Verbruggen*
- 2881 Harm Jan Voorma**, Mo/Si multilayer optics for micro-lithography, MATE, 1997.01.20, *prof.dr.ir. S. Radelaar, prof.dr. M.J. van der Wiel*
- 2882 Holger Günter Jürgen Pump-Uhlmann**, Vom Bildungspalast zum Forschungslaboratorium, HASS, 1997.01.20, *mu.prof.dr. F. Bollerey, prof.dr. K. Hartmann*
- 2883 Jan Willem Thorbecke**, Common focus point technology, PHYS, 1997.01.21, *prof.dr.ir. A.J. Berkhout*
- 2884 Felix Johan Herrmann**, A scaling medium representation. A discussion on well-logs, fractals and waves, PHYS, 1997.01.21, *prof.dr.ir. A.J. Berkhout*
- 2885 Valentin Johannes Meyer**, De stad en de haven. Stedebouw als culturele opgave Londen, Barcelona, New York en Rotterdam, ARCH, 1997.01.21, cum laude, *prof.Dipl.-Ing. H.J. Rosemann, prof.ir. J. Heeling*
- 2886 Naresh Sharma**, On an aerospace design representation programming interface, INFO, 1997.01.27, *mu.prof.Dr.-Ing.Habil. W. Gerhardt, prof.dr. H. Koppelaar*
- 2887 Willem Cornelis de Leeuw**, Presentation and exploration of flow data, INFO, 1997.01.27, *prof.dr.ir. F.W. Jansen*
- 2888 Ewa Barbara Nowacka**, Hybrid models for parasitic capacitances in advanced VLSI circuits, ELEC, 1997.01.27, *prof.dr.ir. P.M. Dewilde*
- 2889 Mohammad Daghigh**, Structural system reliability analysis of jack-up platforms under extreme environmental conditions, MARI, 1997.01.28, *prof.ir. S. Hengst, prof.ir. A.C.W.M. Vrouwenfelder*
- 2890 Ferencz Nandor Toth**, A design methodology for low-cost, high-performance capacitive sensors, ELEC, 1997.01.28, *prof.dr.ir. A.H.M. van Roermund*
- 2891 Denis Bilodeau**, Precedents and design thinking in an age of relativation. The transformations of the normative discourse on the orders of architecture in France between 1650 and 1793, HASS, 1997.01.28, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 2892 Leonid Albert Timochouck**, Constructive algebraic methods for some problems in non-linear analysis, MATH, 1997.02.03, cum laude, *prof.dr.ir. J.W. Reyn*
- 2893 Leendert Albert Rozendaal**, Stability of the shoulder: intrinsic muscle properties and reflexive control, MECH, 1997.02.03, *prof.dr.ir. H.G. Stassen, prof.dr. P.M. Rozing*
- 2894 Eric Theunissen**, Integrated design of a man-machine interface for 4-d navigation, ELEC, 1997.02.04, cum laude, *prof.dr.ir. D. van Willigen, prof.dr.ir. H.G. Stassen*

2895 Baltus Dirk Netten, Knowledge based conceptual design. An application to fibre reinforced composite sandwich panels, INFO, 1997.02.04, *prof.dr. H. Koppelaar*

2896 Martin Theodoor van Hees, Quaestor: expert governed parametric model assembling, MARI, 1997.02.10, *prof.ir. J. Klein Woud, prof.dr. H. Koppelaar*

2897 Ronald Bertus Geskus, Estimation of smooth functionals with interval censored data; and something completely different, MATH, 1997.02.11, *prof.dr. P. Groeneboom*

2898 Hielke Schoonewelle, Nuclear reactor process monitoring in time-domain using stochastic signals, PHYS, 1997.02.17, *prof.dr.ir. H. van Dam*

2899 Zsolt Kadar, Integrated resonant magnetic field sensor, ELEC, 1997.02.17, *prof.dr.ir. S. Middelhoeke*

2900 Gerardus Jan Marseille, MRI scan time reduction through nonuniform sampling, PHYS, 1997.02.18, *prof.dr.ir. A.F. Mehlkopf*

2901 Willem Johan Cornelis Bakkeren, Computer-integrated structural engineering. Supporting the structural engineer's participation in a computer-integrated construction process, CIVIL, 1997.02.18, *prof.ir. F.P. Tolman*

2902 Maarten Eliza Heerschap, Design of cut-outs in shell structures, AERO, 1997.03.03, *prof.dr. A. Rothwell, prof.ir. P.A. van der Schee*

2903 Patrick Johannes van der Meer, Variable bit rate compressed video, ELEC, 1997.03.03, *prof.dr.ir. J. Biemond*

2904 Gábor Kóczya, Models and algorithms for automatic reliability assessment of complex systems, ELEC, 1997.03.03, *prof.dr.ir. J.H. Huijsing*

2905 Marcel Josep Marie Hermans, A study of short circuiting arc welding, MATE, 1997.03.04, *prof.dr. G. den Ouden*

2906 Andreas Clemens van der Ham, A dexterous teleoperator for hazardous environments, ELEC, 1997.03.10, *prof.ir. G. Honderd*

2907 Corine Vroegindewey, Micro- and macroscopic modelling of boron neutron capture therapy. Thermal neutron facility design phantom calculations microdosimetry, MATH, 1997.03.10, *prof.dr.ir. A.J. Hermans, prof.dr.ir. H. van Dam*

2908 Frank Edward van Vliet, Monolithic GaAs microwave tuneable filters for integrated front-ends, ELEC, 1997.03.10, *prof.dr.ir. R.F.G. Baets*

2909 Jeroen Cornelis Kuenen, A design strategy for low-power low-voltage integrated transconductance amplifiers, ELEC, 1997.03.11, *prof.dr.ir. J. Davidse*

2910 Hirzo Merenga, Electronic structure calculations on cerium-containing crystals. Towards a better understanding of scintillation in ionic crystals, PHYS, 1997.03.11, *prof.dr.ir. C.W.E. van Eijk*

2911 Hans Netten, Automated image analysis of FISH-stained cell nuclei, PHYS, 1997.03.11, *prof.dr. I.T. Young, prof.dr. H.J. Tanke*

2912 Richard Heusdens, Overlapped transform coding of images: theory, application and realization, ELEC, 1997.03.17, *prof.dr.ir. J. Biemond*

- 2913 Johannis van der Marel**, Microstrip and microgap chambers. A new generation of gaseous radiation detectors, PHYS, 1997.03.17, *prof.dr.ir. C.W.E. van Eijk*
- 2914 Mehdi Shafiee-far**, Hydrodynamic interaction between fluid flow and oscillating slender cylinders, CIVI, 1997.03.18, *prof.dr.ir. J.H. Vugts*
- 2915 Martin Weiss**, An on-line mass spectrometer for aerosols. Development, characterization and applications, CHEM, 1997.03.18, *prof. M.Sc. B. Scarlett*
- 2916 Marc Jan Petrus Jeroense**, Charges and discharges in HVDC cables - in particular in mass-impregnated HVDC cables, ELEC, 1997.03.24, *prof.dr.ir. F.H. Kreuger*
- 2917 Alexander Jozef Gubbens**, Design of a high-voltage post-column imaging energy filter, PHYS, 1997.03.24, *prof.dr.ir. P. Kruit*
- 2918 Rinze Benedictus**, Solid state amorphisation. Thermodynamics and kinetics, MATE, 1997.03.24, *prof.dr.ir. E.J. Mittemeijer*
- 2919 Guido Mul**, Catalytic diesel exhaust purification - A drift spectroscopic and mechanistic study of soot oxidation, CHEM, 1997.03.25, *prof.dr. J.A. Moulijn*
- 2920 Johannes Heintze**, Design and control of a hydraulically actuated industrial brick laying robot, MECH, 1997.03.25, *prof.ir. O.H. Bosgra*
- 2921 André Wiersma**, Catalytic hydrogenolysis of CCl_3F into CH_3F , process development, CHEM, 1997.04.01, *prof.dr. J.A. Moulijn, prof.dr.ir. H. van Bekkum*
- 2922 Ilse Lilian Tuinman**, The production of Si_3N_4 powders in a laser-driven aerosol reactor, CHEM, 1997.04.01, *prof. M.Sc. B. Scarlett, prof.dr. J. Schoonman*
- 2923 Emilius Johannes Albertus Xaverius van de Sandt**, Catalytic hydrogenolysis of CCl_3F_2 into CH_2F_2 , catalyst development, CHEM, 1997.04.01, *prof.dr.ir. H. van Bekkum, prof.dr. J.A. Moulijn*
- 2924 Martijn Nicolaas Frederik Babeliowsky**, Designing interorganizational logistic networks. A simulation based interdisciplinary approach, ADMI, 1997.04.02, *prof.dr. H.G. Sol*
- 2925 Markus van der Laan**, Environmental tanker design, MARJ, 1997.04.14, *prof.dr. Dipl.-Ing. C. Gallin*
- 2926 Arjan Erik Johan de Nooij**, *Navy* Selective oxidation of primary alcohol groups in polysaccharides, CHEM, 1997.04.14, *prof.dr.ir. H. van Bekkum*
- 2927 Lun-Zhi Liao**, The application of ion exchange membranes in chloride related electrochemical technology, CHEM, 1997.04.15, *prof.dr.ir. G. van Weert, prof.dr. J.H.W. de Wit*
- 2928 Cornelis Johannes Sloff**, Sedimentation in reservoirs, CIVI, 1997.04.15, *prof.dr.ir. M. de Vries*
- 2929 Jolyn Martha Maria de Zwart**, Ecophysiology and modeling of DMS metabolism by methylophaga sulfidovorans, LIFE, 1997.04.15, *prof.dr. J.G. Kuenen*

2930 Pieter Johan Victor van Wesemael, Architectuur van instructie en vermaak. Een maatschappijhistorische analyse van de wereldtentoonstelling als didactisch verschijnsel (1798-1851-1970), HASS, 1997.04.17, cum laude, *prof.dr. C.J.M. Weeber, prof.dr. C.P. Bertels, prof.dr.ir. A. Nijholt*

2931 Wei Min Wang, Stationary and propagative instabilities in metals - a computational point of view, CIVI, 1997.04.21, *prof.dr.ir. R. de Borst*

2932 Arend Erik Groen, Three-dimensional elasto-plastic analysis of soils, CIVI, 1997.04.21, *prof.dr.ir. R. de Borst*

2933 Vincent Gerardus Johannes Gerdes, Identification and analysis of cognitive errors application to control room operators, MECH, 1997.04.21, *prof.dr.ir. H.G. Stassen*

2934 Ilse Marieke Verstijnen, Sketches of creative discovery. A psychological inquiry into the role of imagery and sketching in creative discovery, IDEE, 1997.04.22, *prof. J.M. Hennessey*

2935 Harm Jan Smid, Een onbekookte nieuwigheid? Invoering, omvang, inhoud en betekenis van het wiskundeonderwijs op de Franse en Latijnse scholen 1815-1863, HASS, 1997.04.22, *prof.dr. H.G. Meijer, prof.dr. K. van Berkel*

2936 Andreas Henricus Johannes Marie Vervuurt, Interface fracture in concrete, CIVI, 1997.04.22, *prof.dr.ir. J.C. Walraven*

2937 Tammo Uitterdijk, Integrated electro-optical switches on InP, PHYS, 1997.04.25, *prof.dr.ir. H.J. Frankena*

2938 Frederik Beekmans, Rheology and changes in structure of thermotropic liquid crystalline polymers, MATE, 1997.04.28, *prof.dr.ir. A. de Posthuma de Boer*

2939 Matthew David Harris, Coin tossing, random mirrors and dependent percolation: three paradigms of phase transition, MATH, 1997.04.28, *prof.dr. M.S. Keane*

2940 Hendrik Jan Hultink, Launch strategy's and new product performance. An empirical international study, IDEE, 1997.04.28, cum laude, *prof.dr. A.J. Griffin, prof.dr. H.S.J. Robben*

2941 Mattheus Jacobus Nicolaas van Stralen, Directional decomposition of electromagnetic and acoustic wave-fields. Applications in integrated optics, exploration seismics and underwater acoustics, ELEC, 1997.05.01, *prof.dr.ir. H. Blok*

2942 Arnoud Willem Fortuin, Superconducting phenomena near the transition temperature in single-crystalline aluminum nanostructures, PHYS, 1997.05.01, *prof.dr.ir. S. Radelaar*

2943 Jeroen Kluck, The design of optimally functioning storm water settling tanks, CIVI, 1997.05.06, *prof.ir. J.B.M. Wiggers*

2944 Gert-Peter Boerstool, Modelling of gas-fired furnaces, PHYS, 1997.05.12, *prof.ir. C.J. Hoogendoorn*

2945 Marc Willem van der Burg, Hydrogen attack. Micromechanical modeling on three length scales, MECH, 1997.05.12, *prof.dr.ir. E. van der Giessen*

2946 Jan Sieben, Modeling of hydraulics and morphology in mountain rivers, CIVI, 1997.05.12, *prof.dr.ir. M. de Vries*

2947 Arie van Staveren, Structured electronic design of high-performance low-voltage low-power references, ELEC, 1997.05.13, *prof.dr.ir. A.H.M. van Roermund*

- 2948 Nelleke van der Puil**, Development and catalytic testing of zeolite coatings, CHEM, 1997.05.13, *prof.dr.ir. H. van Bekkum*
- 2949 Jan Marinus Visser**, Sulfur compound oxidation and sulfur production by *Thiobacillus* sp. W5, LIFE, 1997.05.13, *prof.dr. J.G. Kuenen*
- 2950 YUE Zhou**, A model for deposition of fibers in the lung, LIFE, 1997.05.16, *prof.dr. B.H. Bibo*
- 2951 Raymond Josephus Engelbart Huetting**, Charge carrier transport in silicon-germanium heterojunction bipolar transistors, ELEC, 1997.05.20, *prof.dr.ir. J.W. Slotboom*, *prof.dr. M. Kleefstra*
- 2952 Onno Cornelis Snip**, The interconnected fluidized bed reactor for gas/solids regenerative processes, CHEM, 1997.05.20, *prof.ir. C.M. van den Bleek*
- 2953 Alphonsus Adrianus Josephus van Reisen**, Ruim baan door telewerken? Effecten van flexibele werkvormen op ruimtelijke ordening en mobiliteit als gevolg van veranderend tijd-ruimtegedrag, HASS, 1997.05.20, *prof.dr. P. Drewe*
- 2954 Xiujun Li**, Low-cost smart capacitive sensors for position and speed measurement, ELEC, 1997.05.27, *prof.dr.ir. A.H.M. van Roermund*
- 2955 Sven Olav Wallage**, Superconduction transmission lines in microwave filters, PHYS, 1997.05.27, *prof.dr.ir. J.E. Mooij*, *prof.dr.ir. H. Blok*
- 2956 Anton Cornelis Riemslog**, Crack growth in polyethylene, MATE, 1997.06.02, *prof.dr. ir. A. Bakker*
- 2957 Lodivicus Johannes Gerardus Theodorus van Hemmen**, Modelling change management of evolving heterogeneous networks, INFO, 1997.06.02, *prof.dr.ir. M. Looijen*
- 2958 Marco Alexander van den Berg**, Function and regulation of acetyl-coenzyme. A synthetase in the yeast *Saccharomyces cerevisiae*, LIFE, 1997.06.03, *prof.dr. J.G. Kuenen*, *prof.dr. P.J.J. Hooijkaas*
- 2959 Roeland Christiaan Ris**, Spectral modelling of wind waves in coastal areas, CIVI, 1997.06.03, *prof.dr.ir. J.A. Battjes*
- 2960 Pieter Willem Herman de Jager**, Design of "the Fancier", an instrument for fabrication and analysis of nanostructures, combining ion and electron regulation, PHYS, 1997.06.16, *prof.dr.ir. P. Kruit*
- 2961 Pieter Marinus Willem Cornelisse**, The gradient theory applied. Simultaneous modelling of interfacial tension and phase behaviour, CHEM, 1997.06.16, cum laude, *prof.dr.ir. J. de Swaan Arons*
- 2962 Sergei Yuzjevitch Shulepov**, Surface roughness and particle size effect in brownian coagulation, CHEM, 1997.06.16, *prof.dr. G. Frens*
- 2963 Willem Geert Pool**, Backfolding: a new algorithm for the processing of GC/MS data, CHEM, 1997.06.17, *prof.dr.ir. H. van Bekkum*, *prof.dr. J. W. de Leeuw*
- 2964 Jan Tukker**, Turbulence structures in shallow free-surface mixing layers, CIVI, 1997.06.17, *prof.dr.ir. J.A. Battjes*
- 2965 Milan Duskov**, EPS as a light-weight sub-base material in pavement structures, CIVI, 1997.06.18, *prof.dr.ir. A.A.A. Molenaar*, *prof.dr.ir. Y.M. de Haan*

2966 Egon Willem Berghout, Evaluation of information system proposals: design of a decision support method, INFO, 1997.06.19, *prof.dr. B.K. Brussaard*

2967 Joannes Franciscus Maria Tonino, A theory of many-sorted evolving algebras, INFO, 1997.06.19, *prof.dr. S.C. van Westrhenen*

2968 Edwin Adrianus Hendrikus Vollebregt, Parallel software development techniques for shallow water models, INFO, 1997.06.19, *prof.dr.ir. L. Dekker, prof.dr.ir. A.W. Heemink*

2969 Davood Chitchian, Artificial intelligence for automated floor plan generation, INFO, 1997.06.23, *prof.dr. H. Koppelaar, prof. A. Tzonis*

2970 Henricus Johannes Lambertus van Can, Efficient mathematical modeling for bioprocesses based on macroscopic balances and neural networks, LIFE, 1997.06.23, *prof.dr.ir. J.J. Heijnen, prof.ir. K.C.A.M. Luyben*

2971 Erwin Joseph Maria Mombarg, Catalytic modifications of carbohydrates, CHEM, 1997.06.23, *prof.dr.ir. H. van Bekkum*

2972 Evert Walter Start, Direct sound enhancement by wave field synthesis, PHYS, 1997.06.24, *prof.dr.ir. A.J. Berkhout*

2973 Cornelis Adrianus Marinus Steenberghe, High capacity integrated optical receivers, ELEC, 1997.06.24, *prof.dr. B.H. Verbeek*

2974 Klaas Brink, Interfacing control and software engineering: a formal approach, INFO, 1997.06.24, *prof.dr.ir. J. van Katwijk*

2975 Gerrit van der Horn, Integrated smart sensor calibration, ELEC, 1997.06.27, *prof.dr.ir. J.H. Huijsing*

2976 Rensinus Cornelis Strijbos, Hole transport effects in p-Ge lasers, PHYS, 1997.06.27, *prof.dr. W.Th. Wenckebach*

2977 Jacco Leonard Pleumeekers, Poseidon: A simulator for optoelectronic semiconductor devices, ELEC, 1997.06.27, *prof.dr. M. Kleefstra, prof.dr. B.H. Verbeek*

2978 Meindert Alidaan Van, Stability of continuous welded rail track, CIVI, 1997.06.30, *prof.dr.ir. J. Blaauwendraad*

2979 Scott Anthony Fawaz, Fatigue crack growth in riveted joints, AERO, 1997.09.02, *prof.ir. L.B. Voegelsang*

2980 Theodorus Henricus Stooft, Transport of interacting electrons in mesoscopic systems, PHYS, 1997.09.02, *prof.dr.ir. G.E.W. Bauer*

2981 Johanna de Wilde, Passie voor productontwikkeling. De professionalisering van de ingenieur industrieel ontwerpen, IDEE, 1997.09.03, *prof.dr.ir. J.A. Buijs, prof.dr. J.W. Drukker*

2982 Ajantha Niranjala Weerasinghe Dahanayake, An environment to support flexible information modeling, INFO, 1997.09.03, *prof.dr. H.G. Sol, prof.dr.ir. J.L.G. Dietz*

2983 Cornelis Hans Dorst, Describing design. A comparison of paradigms, IDEE, 1997.09.08, *cum laude, prof.dr.ir. J.A. Buijs, prof.dr.ir. N.G. Cross*

2984 Mark Roy Taco Roest, Partitioning for parallel finite difference computations in coastal water simulation, INFO, 1997.09.08, *prof.dr.ir. L. Dekker, prof.dr.ir. A.W. Heemink*

- 1985 Wilhelmus Hendrikus Anna Peelen**, Stability and reactivity of oxygen, nickel and cobalt species in molten carbonate, MECH, 1997.09.08, *prof.dr. J.H.W. de Wit*
- 1986 Marcel Tichem**, A design coordination approach to design for X, MECH, 1997.09.09, *prof.ir. L.N. Reijers*
- 1987 Gerard van Schothorst**, Modelling of long-stroke hydraulic servo-systems for flight simulator motion control and system design, MECH, 1997.09.09, *prof.ir. O.H. Boggra, prof.dr.ir. J.A. Mulder*
- 1988 Pieter Willem Christiaan Provo Kluit**, The development of in-situ foamed sandwich panels, MATE, 1997.09.09, *prof.ir. L.B. Vogelesang*
- 1989 Johannes Petrus Bernardus Nicolaas Derks**, Cold fluid driven crack propagation. Thermo-mechanical behaviour of rock-caverns, CIVI, 1997.09.15, *prof.dr.ir. J. Blaauwendraad, prof.dr.ir. R. de Borst*
- 1990 Paul Cornelius Antonius van Gool**, Rotorcraft responses to atmospheric turbulence, AERO, 1997.09.15, *prof.dr.ir. J.A. Mulder*
- 1991 Geert Feye Woerlee**, Hydrodynamics and mass transfer in packed columns and their applications for supercritical separations, MECH, 1997.09.15, *prof.dr.ir. J. de Graauw*
- 1992 Thijs van Kessel**, Generation and transport of subaqueous fluid mud layers, CIVI, 1997.09.16, *prof.dr.ir. J.A. Battjes*
- 1993 Julianus Ludovicus Maria Renckens**, Technology and organisation of alu-glass façades, ARCH, 1997.09.16, *prof.dr.ir. A.C.J.M. Eekhout, prof.ir.dr.s. S.C.M. Menheere*
- 1994 Astrid Alexandra van de Graaf**, Biological anaerobic ammonium oxidation, LIFE, 1997.09.16, *prof.dr. J.G. Kuenen*
- 1995 Michiel André Willemse**, Interactive product design tools for automated assembly, MECH, 1997.09.19, *prof.ir. L.N. Reyers*
- 1996 Max Wolfgang Winterling**, Oscillations in rail vehicle traction drives. Analysis of electromechanics, ELEC, 1997.09.22, *prof.dr.ing. W. Delcroi*
- 1997 Rob Hagmeijer**, Adaptation of structured grids based on weighted least squares formulations, AERO, 1997.09.22, *prof.dr.ir. H.W.M. Hoeijmakers*
- 1998 Roland Johannes Petrus Boon**, Simulation of volume changes in hardening cement-based materials, CIVI, 1997.09.22, *prof.dr.ir. P.G. Bakker*
- 1999 Eduardus Aloysius Bernardus Koenders**, Simulation of volume changes in hardening cement-based materials, CIVI, 1997.09.23, *prof.dr.ir. J.C. Walraven*
- 3000 Johannes Cornelis van der Heijden**, Modelling and simulation of decomposition reactions, AERO, 1997.09.23, *prof.dr.ir. H.W.M. Hoeijmakers*
- 3001 Riaz Ala'i**, Improving predrilling views by pseudo seismic borehole data, PHYS, 1997.09.25, *prof.dr.ir. A.J. Berkhout*
- 3002 Mian Muhammad Nurul Kabir**, Velocity estimation of the complex subsurface using the common focus point technology, PHYS, 1997.09.25, *prof.dr.ir. A.J. Berkhout*
- 3003 Theo Philippe Hubert Steeghs**, Local power spectra and seismic interpretation, GEOS, 1997.09.25, *prof.dr.ir. J.T. Fokkema*

- 3004 Anja van der Graaf**, Polarized neutron reflectometry on thin magnetic films, PHYS, 1997.10.10, *prof.dr.ir. L.A. de Graaf*
- 3005 Arnold Herman Lobbrecht**, Dynamic water-system control, CIVI, 1997.10.10, *prof.ir. W.A. Segeren, prof.dr. F.A. Lootsma*
- 3006 Cornelis Marinus Schep**, Electrical transport in metallic magnetic multilayers, PHYS, 1997.10.10, cum laude, *prof.dr.ir. G.E.W. Bauer, prof.dr. P.J. Kelly*
- 3007 Manfred Andreas Ziegler**, Region-based analysis and coding of stereoscopic video, ELEC, 1997.10.13, *prof.dr.ir. J. Biemond*
- 3008 Martha Charlotte Scheiber**, Hydrogen mixed conductors properties and applications, CHEM, 1997.10.13, *prof.dr. J. Schoonman, prof.dr. R.A. Huggins*
- 3009 Michiel Johannes van Buel**, Centrifugal partition chromatography, CHEM, 1997.10.13, *prof.ir. K.C.A.M. Luyben*
- 3010 Jan Schuurmans**, Control of water levels in open-channels, CIVI, 1997.10.14, *prof.ir. R. Brouwer, prof.ir. O.H. Bosgra*
- 3011 Bogdan Orlic**, Predicting subsurface conditions for geotechnical modelling, GEOS, 1997.10.14, *prof.dr.ing. D.D. Genske, prof. D.G. Price*
- 3012 Hielke Dolf Hoekstra**, The mechanical behavior of UV-degraded HDPE: consequences for designers, IDEE, 1997.10.14, *prof.ir. J.L. Spoormaker, prof.dr.ir. J. van Turnhout*
- 3013 Johan Bernard Ubbink**, On DNA in confined and congested states, LIFE, 1997.10.20, *prof.dr. T. Odijk*
- 3014 Peter Alexander van Elsas**, Free-form displacement features in conceptual shape design, IDEE, 1997.10.20, *prof.ir. P. de Ruwe, prof.dr.ir. I. Horvath*
- 3015 Dorine Lisa Verraest**, Modification of inulin for non-food applications, CHEM, 1997.10.21, *prof.dr.ir. H. van Bekkum*
- 3016 Johanna Maria Zuurmond**, Het land in de stad, ARCH, 1997.10.21, *prof.ir. D.H. Frieling, prof.dr.ir. C.M. Steenberg*
- 3017 Leo Johannes Marie Tummers**, Het land in de stad, ARCH, 1997.10.21, *prof.ir. D.H. Frieling, prof.dr.ir. C.M. Steenberg*
- 3018 Raymond Robertus Gertrudis Georg Godderij**, A three dimensional interface model for steam drive in heterogeneous reservoirs, GEOS, 1997.10.27, *prof.dr.ir. J. Hagoort*
- 3019 Gerdina Richarda Maria Breembroek**, Emulsion and supported liquid membrane extraction of copper and cadmium, CHEM, 1997.10.27, *mu.prof.dr.ir. G.M. van Rosmalen*
- 3020 Willem Jansze**, Strengthening of reinforced concrete members in bending by externally bonded steel plates, CIVI, 1997.10.27, *prof.dr.ir. J.C. Walraven*
- 3021 André Marcel Diederer**, Countercurrent sorption equipment using transported open sorbent material, MECH, 1997.10.28, *prof.dr.ir. A.W. Veenman, prof.dr.ir. J. de Graauw*
- 3022 Jakob Jan Horst**, Influence of fibre orientation on fatigue of short glassfibre reinforced polyamide, MATE, 1997.10.28, *prof.ir. J.L. Spoormaker*
- 3023 Jan-Baptist Willem Peter Loos**, Modeling of adsorption and diffusion of vapors in zeolites, CHEM, 1997.10.31, *prof.dr. J.A. Moulijn, prof.ir. J.A. Wesselingh*

3024 Winfried van Holland, Assembly Features in modelling and planning, INFO, 1997.11.03, *prof.dr.ir. F.W. Jansen*

3025 Johannes Egbert Dijkstra, Monte Carlo simulation of hole transport in Si, Ge and $\text{Si}_{(1-x)}\text{Ge}_x$, PHYS, 1997.11.03, *prof.dr. W.Th. Wenckebach*

3026 Hubertus Antonius Bernardus te Braake, Neural control of biotechnological processes, ELEC, 1997.11.03, *prof.ir. H.B. Verbruggen*

3027 Gerardus Cornelis de Wit, A retinal scanning display for virtual reality, PHYS, 1997.11.06, *prof.dr.ir. J.J.M. Braat*

3028 Wouter Pasman, Enhancing x-ray baggage inspection by interactive viewpoint selection, IDEE, 1997.11.17, *mw.prof.dr. G.J.F. Smets*

3029 Arnold Jan den Dekker, Model-based resolution, PHYS, 1997.11.17, cum laude, *prof.dr.ir. A. van den Bos*

3030 Henricus Jacobus Cornelis Gommeren, Study of a closed circuit jet mill plant using on-line particle size measurements, CHEM, 1997.11.17, *prof. M.Sc. B. Scarlett, prof.ir. O.H. Bosgra*

3031 Matthijs Gerrit van den Heuvel, Openbaar vervoer in de randstad, een systematische aanpak, CIVI, 1997.11.18, *prof.ir. M. van Witsen*

3032 Ronald Peter Krom, Robots in the building industry, CIVI, 1997.11.18, *prof.ir. F.P. Tolman*

3033 Jacobus Johannes Maria Uijlenbroek, Designing electronic document infrastructures, INFO, 1997.11.21, *prof.dr. H.G. Sol*

3034 Jacob Antonius Elings, Solid-acid catalysed reactions with epoxides and allyl aryl ethers, CHEM, 1997.11.21, *prof.dr. R.A. Sheldon*

3035 Theodorus Johannes Cornelis van Rooij, Interactieve planvorming voor waterbeheer, CIVI, 1997.11.24, *prof.dr. J. de Jong, prof.ir. E. van Beek*

3036 Franciscus Joseph Dessing, A wavelet transform approach to seismic processing, PHYS, 1997.11.24, *prof.dr.ir. A.J. Berkhout*

3037 Klaas Richard Kloetstra, Chemistry of mesoporous molecular sieves, CHEM, 1997.11.25, *prof.dr.ir. H. van Bekkum*

3038 Brenda Henriëtte Timmerman, Holographic interferometric tomography for unsteady compressible flows, AERO, 1997.11.25, *prof.dr.ir. P.G. Bakker*

3039 Ruurd René Meinsma, Decision support in business environments, ADML, 1997.11.25, *prof.dr. H.G. Sol*

3040 Etienne de Klerk, Interior point methods for semidefinite programming, MATH, 1997.12.01, *prof.dr. F.A. Lootsma*

3041 Alexei Borisovich Ermakov, Percolation and coalescing particle systems, MATH, 1997.12.01, *prof.dr. M.S. Keane*

3042 Marinus Huurman, Permanente vervorming in betonsteenverhardingen, CIVI, 1997.12.01, cum laude, *prof.dr.ir. A.A.A. Molenaar*

3043 Anders Wolff, Process models of enzymatic enantioselective conversion of poorly water soluble solids suspended in water or dissolved in water-cosolvent mixture, LIFE, 1997.12.02, *prof.dr.ir. J.J. Heijnen*

3044 Cornelis van Dam, InP-based polarisation independent wavelength demultiplexers, ELEC, 1997.12.02, *prof.dr.ir. H. Blok*

3045 Dirk de Roover, Motion control of a wafer stage. A design approach for speeding up IC production, MECH, 1997.12.02, *prof.dr.ir. O.H. Bosgra*

3046 Yanrong Yu, The static strength of uniplanar and multiplanar connections in rectangular hollow sections, CIVI, 1997.12.05, *prof.dr.ir. J. Wardenier*

3047 Li Hua Lu, The static strength of I-beam to rectangular hollow section column connections, CIVI, 1997.12.05, *prof.dr.ir. J. Wardenier*

3048 Willem Remco Pasterkamp, The tyre as sensor to estimate friction, MECH, 1997.12.08, *prof.dr.ir. H.B. Paceyja, prof.ir. O.H. Bosgra*

3049 Norbert Fraunholz, Plastic flotation, MECH, 1997.12.08, *prof.ir. W.L. Dalnijn, prof.dr.ir. R.H. Heerema*

3050 Hendrik van der Wulp, Piezo-driven stages for nanopositioning with extreme stability. Theoretical aspects and practical design considerations, MECH, 1997.12.08, *prof.dr.ir. H.F. van Beek*

3051 Aldegonda Lucia Weijers, Two-camera shearing speckle interferometer for real-time deformation measurements, PHYS, 1997.12.09, *prof.dr.ir. H.J. Frankena*

3052 Erik Luijten, Interaction range, universality and the upper critical dimension, PHYS, 1997.12.09, cum laude, *prof.dr. H.W.J. Blöte, prof.dr.ir. J.J.J. Kokkedee*

3053 Yi Qing Cui, Fungal fermentation - technological aspects, LIFE, 1997.12.09, *prof.ir. K.C.A.M. Luyben*

3054 Akira Higuchi, Transient response of tyres at large wheel slip and camber, MECH, 1997.12.10, *prof.dr.ir. H.B. Paceyja*

3055 Peter Nicolaas Willem Verhoef, Wear of rock cutting tools: implications for the site investigation of rock dredging projects, GEOS, 1997.12.12, *prof. D.G. Price, prof.ir. W.J. Vlasblom*

3056 Hendricus Johannes Wilhelmus Maria Legius, Propagation of pulsations and waves in two-phase pipe systems, PHYS, 1997.12.15, *prof.dr.ir. H.E.A. van den Akker*

3057 Václav Matousek, Flow mechanism of sand-water mixtures in pipelines, CIVI, 1997.12.15, cum laude, *prof.ir. J. de Koning, prof.ir. W.J. Vlasblom*

3058 Rob Matheus Maria Stevens, Phase equilibria and other physicochemical aspects of interest for enzymatic reactions in near-critical carbon dioxide, CHEM, 1997.12.15, *prof.dr.ir. J. de Swaan Arons*

3059 Hendrik Stevens, De institutionele positie van zeehavens, ADMI, 1997.12.16, *prof.dr. W.G.M. Salet*

3060 Cornelis Gerardus Maria Vreeburg, InP-based photonic integrated circuits for wavelength routing and switching, ELEC, 1997.12.16, *prof.dr. B.H. Verbeek*

3061 Tao Ma, Weldability of Al-Zn-Mg alloys, MATE, 1997.12.16, *prof.dr. G. den Ouden*

3062 Bendiks Jan Boersma, Electromagnetic effects in cylindrical pipe flow, MECH, 1997.12.19, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr. F.C. Schüller*

3063 Vladimir Shulmeister, Modelling of the mechanical properties of low-density foams, MECH, 1998.01.12, *prof.dr.ir. R. Marissen*

- 3064 Sorin Dan Cotofana**, Addition related arithmetic operations with threshold logic, INFO, 1998.01.12, *prof.dr. S. Vassiliadis*
- 3065 Michiel Adriaan Odijk**, Railway timetable generation, MATH, 1998.01.12, *prof.dr. R.M. Cooke*
- 3066 Adrianus Johannes Steinfort**, Scattering from thin layers and interfaces, PHYS, 1998.01.13, *prof.dr.ir. F. Tuinstra*
- 3067 Alexander van Oudenaarden**, Quantum vortices and quantum interference effects in circuits of small tunnel junctions, PHYS, 1998.01.13, cum laude, *prof.dr.ir. J.E. Mooij*
- 3068 Jurriaan Heinrich de Groot**, The shoulder. A kinematic and dynamic analysis of motion and loading, MECH, 1998.01.19, *prof.dr.ir. H.G. Stassen*
- 3069 Rindert Jacob de Vries**, On the theory of lamellar phases of charged fluid membranes, CHEM, 1998.01.19, cum laude, *prof.dr. T. Odijk*
- 3070 Edwin Nico Gerard Verheijen**, Sound reproduction by wave field synthesis, PHYS, 1998.01.19, *prof.dr.ir. A.J. Berkhout*
- 3071 Pieter Joost de Jager**, Development of a new slicing methodology to improve layered manufacturing, MECH, 1998.01.20, *prof.ir. P. de Ruwe, prof.dr.ir. I. Horvath*
- 3072 Maurice Hubertus Petrus Dohmen**, Constraint-based feature validation, INFO, 1998.01.20, *prof.dr.ir. F.W. Jansen*
- 3073 Jannis Klaas de Kraker**, Feature conversion for concurrent engineering, INFO, 1998.01.20, *prof.dr.ir. F.W. Jansen*
- 3074 Adrianus Bos**, Choosing the right model. The modeling problem in model based diagnosis, INFO, 1998.01.26, *prof.dr.ir. J. van Katwijk, prof.dr. S.C. van Westrhenen*
- 3075 Aleksandar Vlaski**, Microcystis aeruginosa. Removal by dissolved air flotation (DAF). Options for enhanced process operation and kinetic modelling, LIFE, 1998.01.26, *prof.dr.ir. G.J.F.R. Alaerts*
- 3076 Marc Jan Christiaan van den Homberg**, Microstructural and electrical properties of resolidified submicron Al lines, PHYS, 1998.01.26, *prof.dr.ir. S. Radelaar*
- 3077 Zhi-Gang Wei**, Mental load and performance at different automation levels, MECH, 1998.01.27, *prof.dr.ir. H.G. Stassen*
- 3078 Robert Eugene Johan van den Bercken**, IR Emission/absorption tomography in flames, PHYS, 1998.01.27, *prof.ir. C.J. Hoogendoorn*
- 3079 Tjeerd Alexander Nijhuis**, Towards a new propene epoxidation process. Transient adsorption and kinetics measurements applied in catalysis, CHEM, 1998.01.27, *prof.dr. J.A. Moulijn*
- 3080 Erik Peter Carton**, Shock compaction of ceramics and composites, CHEM, 1998.02.02, *prof.dr. J. Schoonman, prof.ir. L. Katgerman*
- 3081 Lucas Cornelis Mur**, Mesoscopic superconductor 2-dimensional electron gas superconductor junctions, PHYS, 1998.02.02, *prof.dr.ir. J.E. Mooij*
- 3082 Erwan Karyadi**, Collapse behavior of imperfect sandwich cylindrical shells, AERO, 1998.02.03, *prof.dr. J. Arbocz*

- 3083 Robert Cornelis Zijerveld**, Chaotic hydrodynamics of large and small circulation fluidized beds, CHEM, 1998.02.03, *prof.dr. C.M. van den Bleek, prof.dr. F. Takens*
- 3084 Antal Frans Jozef Baggerman**, Technology and reliability of TAB and Flip-Chip interconnections, ELEC, 1998.02.03, *prof.dr. C.I.M. Beenakker*
- 3085 Oscar Kelder**, Frequency-dependent wave propagation in water-saturated porous media, GEOS, 1998.02.09, *prof.dr. M. Peeters*
- 3086 Rudolf Johannes Schotting**, Mathematical aspects of salt transport in porous media, MATH, 1998.02.09, *prof.dr.ir. C.J. van Duyn*
- 3087 Hendrik Konijnenburg**, Overhauser imaging: requirements, design, specification and verification, PHYS, 1998.02.10, *prof.dr.ir. A.F. Mehlkopf*
- 3088 Tatjana Clasen-Vujčić**, Overhauser imaging: requirements, design, specification and verification, PHYS, 1998.02.10, *prof.dr.ir. A.F. Mehlkopf*
- 3089 Alexander Cornelis Steenbrink**, On deformation and fracture of amorphous polymer-rubber blends, MECH, 1998.02.16, *prof.dr.ir. E. van der Giessen*
- 3090 Louisette Merete Sierevogel**, Time-domain calculations of ship motions, MATH, 1998.02.17, *prof.dr.ir. A.J. Hermans*
- 3091 Jeroen Groenenboom**, Acoustic monitoring of hydraulic fracture growth, GEOS, 1998.03.02, cum laude, *prof.dr.ir. J.T. Fokkema*
- 3092 Anthony William Minns**, Artificial Neural Networks as Subsymbolic Process Descriptors, CIVI, 1998.03.02, *prof.dr. M.B. Abbott*
- 3093 Augustinus Jacobus Hubertus Muijres**, Acoustic waves in cracked media, MATH, 1998.03.02, *prof.dr.ir. A.J. Hermans*
- 3094 Rob Otte**, Low-power wireless optical transmission. Systems for communications, telemetry and control, ELEC, 1998.03.03, *prof.dr.ir. A.H.M. van Roermund*
- 3095 Paulus Fernandus Gerardus Dechering**, Semantics for compiling data parallelism, INFO, 1998.03.03, *prof.dr.ir. H.J. Sips, prof.dr. J.J.Ch. Meyer*
- 3096 Ade Jamal**, Collapse of anisotropic cylindrical shells under combined bending and transverse shear load, AERO, 1998.03.03, *prof.dr. J. Arbocz*
- 3097 Sander Jozef Tans**, Electron transport through single molecular wires, PHYS, 1998.03.10, cum laude, *prof.dr.ir. J.E. Mooij*
- 3098 Symen Hilbert Stroeve**, Neuromuscular control of arm movements: a modelling approach, MECH, 1998.03.16, *prof.dr.ir. H.G. Stassen*
- 3099 Peter Willem Anton Zegelaar**, The dynamic response of tyres to brake torque variations and road unevennesses, MECH, 1998.03.16, *prof.dr.ir. H.B. Pacejka*
- 3100 Marcus Franciscus Uiterdijk**, Functional calculi for closed linear operations, MATH, 1998.03.16, *prof.dr. P.P.J.E. Clément*
- 3101 Antonius Gertrudus Christiaan Machiels**, Formation, stability and properties of self-reinforcing polymer blends, CHEM, 1998.03.17, *prof.dr.ir. A. de Posthuma de Boer*

3102 Arend Victor Harms, Analytical aspects of technetium speciation in spinach plants, LIFE, 1998.03.17, *prof.dr.ir. J.J.M. de Goeij, prof.dr.ir. F.M. Euenerts*

3103 Johannes Godfried Maria Dotsch, Identification for control design with application to a compact disk mechanism, MECH, 1998.03.17, *prof.ir. O.H. Bosgra*

3104 Michael Hendrikus Laurentius Kouwenhoven, High-performance frequency-demodulation systems, ELEC, 1998.03.23, cum laude, *prof.dr.ir. A.H.M. van Roermund*

3105 Johannes Christiaan Kok, An industrially applicable solver for compressible, turbulent flows, MATH, 1998.03.23, *prof.dr.ir. A.J. Hermans, prof.dr.ir. J.W. Boerstael*

3106 Gerben Johan Hekstra, CORDIC for high performance numerical computation, ELEC, 1998.03.23, *prof.dr.ir. P.M. Dewilde*

3107 Huibrecht Adriaan Wouters, Lagrangian models for turbulent reacting flows, PHYS, 1998.03.24, *prof.dr. D.J.E.M. Roekaerts*

3108 Alfonsus Hendricus Maria Krom, Numerical modelling of hydrogen transport in steel, MATE, 1998.03.24, *prof.dr.ir. A. Bakker*

3109 Cornelis Marinus Verloop, The chemistry in the freeboard of a coal-fired pressurized fluidized bed combustor, MECH, 1998.03.24, *prof.dr.ing. K.R.G. Hein, prof.dr. J.A. Moulijn*

3110 Xiangmin Zhang, Coal fires in Northwest China. Detection, monitoring and prediction using remote sensing data, GEOS, 1998.04.06, *prof.dr. S.B. Kroonenberg*

3111 Sunjoo Kan Advani, The kinematic design of flight simulator motion-bases, AERO, 1998.04.06, *prof.dr.ir. J.A. Mulder, prof.ir. O.H. Bosgra*

3112 Jan do Livramento, Dynamic modelling for analysis and design of bottle conveying systems in high-speed bottling lines, MECH, 1998.04.06, *prof.ir. O.H. Bosgra*

3113 Leonardo Gunawan, Experimental study of nonlinear vibrations of thin-walled cylindrical shells, AERO, 1998.04.07, *prof.ir. R.J. Zwaan, prof.dr.ir. P.J.H. Buijtjes*

3114 John Peter Meeder, Numerical simulation of chemical reactions in point-source plumes, MECH, 1998.04.07, *prof.dr.ir. E.T.M. Nieuwstadt, prof.dr.ir. P.J.H. Buijtjes*

3115 Michiel Jan Haye, A parallel Car-Parrinello scheme development and applications, PHYS, 1998.04.14, *prof.dr.ir. F. Tuinstra, prof.dr. S.W. de Leeuw*

3116 Petronella Wilhelmina de Bont, Sulfidation behaviour of Co and Mo in Y-type zeolite, CHEM, 1998.04.14, *prof.dr. J.A. Moulijn, prof.dr. J.A.R. van Veen*

3117 Floris Schokking, Anisotropic geotechnical properties of a glacially overconsolidated and fissured clay, CIVI, 1998.04.14, *prof.dr. J.D. Nieuwenhuis, prof.dr.ir. A. Verruijt*

3118 Peter Jan Smits, High-pressure-high-temperature fluid phase behaviour of the systems $\text{CF}_4 + \text{H}_2\text{O}$, $\text{CF}_4 + \text{H}_2\text{O} + \text{NaCl}$, $\text{CHF}_3 + \text{H}_2\text{O}$ and $\text{CHF}_3 + \text{H}_2\text{O} + \text{NaCl}$. Measurements and modelling, CHEM, 1998.04.20, *prof.dr.ir. J. de Swaan Arons*

3119 Joao Miguel da Costa Sousa, A fuzzy approach to model-based control, ELEC, 1998.04.20, *prof.ir. H.B. Verbruggen*

3120 Adriana Maria Buis, Support of the design of a new parcelling during a land consolidation project, GEOD, 1998.04.21, *prof.dr. Ch.J. Vos*

3121 Wilhelmus Antonius Josephina van Benthum, Integrated nitrification and denitrification in biofilm airlift reactors: biofilm development, process design and hydrodynamics, LIFE, 1998.04.21, *prof.dr.ir. J.J. Heijnen*

3122 Zainal Abidin, Adaptive self-tuning flight control systems the multiple model approach, AERO, 1998.04.27, *prof.dr.ir. J.A. Mulder, prof.ir. G. Honderd*

3123 Martinus Verlaan, Efficient Kalman Filtering Algorithms for Hydrodynamic models, MATH, 1998.04.27, *prof.dr.ir. A.W. Heemink*

3124 Sander Rogier Piersma, Structure and catalytic mechanism of nicotinoprotein alcohol dehydrogenases from amycolatopsis, CHEM, 1998.04.27, *prof.dr.ir. J.A. Duine*

3125 Victor Maarten Erik Schenkeveld, Measurement of fluorescence lifetimes using noise and PRBS modulated light, PHYS, 1998.05.11, *prof.dr. I.T. Young*

3126 Peter Paul Joseph van Loon, Interorganisational design, HASS, 1998.05.11, cum laude, *prof.ir. H. de Jonge, prof.dr.ir. L.A. van Gunsteren*

3127 Paul Jos Diepen, Cooling crystallization of organic compounds processes, purity and permeability, CHEM, 1998.05.11, *mu.prof.dr.ir. G.M. van Rosmalen*

3128 Petrus Carolus Johannes Graat, The initial oxidations of iron and iron nitride, MATE, 1998.05.18, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. M.A.J. Somers*

3129 Erik Frank Theo Buiël, Design and evaluation of a human-machine interface for a teleoperated space manipulator, MECH, 1998.05.18, *prof.dr.ir. H.G. Stassen*

3130 Jan Cornelis van der Waal, Synthesis, characterization and catalytic application of zeolite titanium beta, CHEM, 1998.05.18, *prof.dr.ir. H. van Bekkum*

3131 Thomas Hendrik Rozijn, MRI techniques for tissue perfusion and vascular permeability measurements, PHYS, 1998.05.19, *prof.dr.ir. A.F. Mehlkopf*

3132 Willem Onno de Wit, Telefonie in Nederland 1877-1940. Opkomst en ontwikkeling van een grootschalig technisch systeem, HASS, 1998.05.19, *prof.dr.ir. H.W. Lintsen, prof.ir. C. de Jong*

3133 Laure Marie Itard, Wer compression-resorption heat pump cycles: thermodynamic analysis and design, MECH, 1998.05.25, *prof.ir. H. van der Ree*

3134 Fredericus Johannes Vermolen, Mathematical models for particle dissolution in extrudable aluminium alloys, MATE, 1998.05.25, *prof.dr.ir. S. van der Zwaag, prof.dr.ir. P. Wesseling*

3135 Jan Roelof Westra, High-performance oscillators and oscillator systems, ELEC, 1998.05.26, *prof.dr.ir. A.H.M. van Roermund*

3136 Marcel Richard André Brunt, Coordination of redundant systems, ELEC, 1998.05.26, *prof.ir. G. Honderd*

3137 Nienke Vriezen, Physiology of mammalian cells in suspension culture, LIFE, 1998.05.26, *prof.dr. J.G. Kuenen, prof.ir. K.C.A.M. Luyben*

- 3138 Patrick Raymond Onck**, High-temperature fracture of polycrystalline materials. A microstructural modelling approach, MECH, 1998.06.02, cum laude, *prof.dr.ir. E. van der Giessen*
- 3139 Robert Arie Johannes van der Bijl**, Precedent-gebaseerde systemen onderzoek naar een toepassing binnen het kennisdomein gebouwde omgeving en veiligheid, ARCH, 1998.06.02, *prof. A. Tzonis, prof. M.Sc. S.J. Doorman*
- 3140 Soerjanto Tjahjono**, Consequences and challenges of GLARE for structural repair and newly design fuselage structure, AERO, 1998.06.02, *prof.ir. L.B. Voegesang, prof.ir. K. Smit*
- 3141 Alexander François Hubert Duyndam**, On the dynamics of linear micelles, LIFE, 1998.06.04, *prof.dr. T. Odijk*
- 3142 Erwin Mooij**, Aerospace-plane flight dynamics. Analysis of guidance and control concepts, AERO, 1998.06.04, *prof.ir. K.F. Wakker, prof.dr.ir. P.G. Bakker*
- 3143 Theodorus Antonius Maria Versteegh**, Numerical simulation of natural convection in a differentially heated, vertical channel, MECH, 1998.06.04, *prof.dr.ir. F.T.M. Nieuwstadt, prof.dr.ir. A.A. van Steenhoven*
- 3144 Theodorus Nicolaas Oltshoorn**, Groundwater modelling: calibration and the use of spreadsheets, CIVI, 1998.06.08, *prof.ir. J.H. Kop*
- 3145 Lars Varming Jorgensen**, Positron moderation and re-emission experiments, PHYS, 1998.06.08, *prof.dr. A. van Veen, prof.dr.ir. H. van Dam, prof.dr.ir. P. Kruit*
- 3146 Johanna Hendrica Maria Visser**, Extensile hydraulic fracturing of (saturated) porous materials, CIVI, 1998.06.08, *prof.dr.ir. J.C. Walraven*
- 3147 David Koo**, Echo cancellation in television, ELEC, 1998.06.09, *prof.dr.ir. A.H.M. van Roermund*
- 3148 Caroline Gertrudis van Hemel**, Eco design empirically explored. Design for environment in Dutch small and medium sized enterprises, IDEE, 1998.06.09, *prof.dr.ir. J.C. Brezet, prof.dr. J. Cramer*
- 3149 Hendrik Polinder**, On the losses in a high-speed permanent-magnet generator with rectifier with special attention to the effect of a damper cylinder, ELEC, 1998.06.09, *prof.dr.ing. W. Deleroi*
- 3150 Franciscus Albertus Martinus van der Steen**, Self-motion perception, PHYS, 1998.06.11, *prof.dr.ir. J.A. Mulder*
- 3151 Arjen Ijsbert Hoekstra**, Perspectives on water. An integrated model-based exploration of the future, CIVI, 1998.06.11, *prof.dr.ir. W.A.H. Thissen, prof.dr.ir. J. Rotmans*
- 3152 Dagnachew Birru Mekonnen**, Reduced-sample-rate sigma-delta modulation. A generalized noise-shaping approach with optimum polyphase signal processing, ELEC, 1998.06.11, *prof.dr.ir. A.H.M. van Roermund*
- 3153 Cornelis Willem van den Herik**, Group support for policy making, ADMI, 1998.06.15, *prof.dr. H.G. Sol*
- 3154 Fred Anton Voorhorst**, Implementing perception-action coupling for endoscopy, IDEE, 1998.06.15, *mw.prof.dr. G.J.F. Smeets, prof.dr.ir. H.G. Stassen*

- 3155 Johan Partomo Djajadiningrat**, Cubby: What you see is where you act. Interlacing the display and manipulation spaces, IDEE, 1998.06.15, cum laude, *muw.prof.dr. G.J.F. Smets*
- 3156 Haico Victor Kok**, Experiments on a natural circulation loop - from void-fraction to coupled nuclear thermal-hydraulics, PHYS, 1998.06.16, *prof.dr.ir. H. van Dam*
- 3157 Gerardus Johannes Maria Janssen**, Robust receiver techniques for interference-limited radio channels, ELEC, 1998.06.16, *prof.dr. J.C. Arnbak*
- 3158 Gerrit Joost Meuzelaar**, Catalytic cyclizations in natural product synthesis, CHEM, 1998.06.16, *prof.dr. R.A. Sheldon*
- 3159 Aart-Jan van Wijngaarden**, Imaging and characterization of angle-dependent seismic reflection data, PHYS, 1998.06.17, *prof.dr.ir. A.J. Berkhout*
- 3160 Joan Roland Ortt**, Videotelephony in the consumer market, IDEE, 1998.06.17, *prof.dr. W.M. Oppedijk van Veen*
- 3161 Dionisius Marinus Antonius Maria Luykx**, Enzymological studies on bacterial aldehyde dehydrogenases, LIFE, 1998.06.17, *prof.dr.ir. J.A. Duine*
- 3162 Anna Maria Mulders**, Complex magnetic phenomena in rare earth intermetallic compounds, PHYS, 1998.06.18, *prof.dr. K.H.J. Buschow, prof.dr. H. Postma*
- 3163 Daan Hubert van Egeraat**, Een Herculische opgave. De implementatie van telematica in de verkeer- en vervoersector als inter-organisatorisch veranderingsproces, ADMI, 1998.06.18, *prof.dr. H.G. Sol*
- 3164 Anna Aldegonda Gerarda Steuten**, A contribution to the linguistic analysis of business conversations within the language / action perspective, INFO, 1998.06.22, *prof.ir. D.N. Dietz, prof.dr. K. Hengeveld*
- 3165 Eric Johannes Maria Wallerbos**, Reactivity effects in a pebble-bed type nuclear reactor. An experimental and calculational study, PHYS, 1998.06.22, *prof.dr.ir. H. van Dam*
- 3166 Peter Conrad Hubert Ament**, Corrosion fatigue of structural steel in sea water, MATE, 1998.06.22, *prof.dr.ir. A. Bakker, prof.dr. J.H.W. de Wit*
- 3167 Lars Johannes Evers**, Dynamics of confined liquid systems: The rupture of soap films, CHEM, 1998.06.23, *prof.dr. G. Frens*
- 3168 Mantijn Leonardus Johannes van Leeuwen**, Precipitation and mixing, CHEM, 1998.06.23, *muw.prof.dr.ir. G.M. van Rosmalen, prof.dr.ir. H.E.A. van den Akker*
- 3169 Gerardus Wigmans**, De facilitaire stad, ARCH, 1998.06.23, *prof.Dipl.-Ing. H.J. Rosemann*
- 3170 Luca Zanini**, Neutron capture gamma-ray spectroscopy with ^{107}Ag , ^{109}Ag and ^{115}In for parity violation and nuclear structure studies, PHYS, 1998.09.01, *prof.dr. H. Postma*
- 3171 Jan van der Kuur**, Defects in thin films deposited with and without ion assistance, MATE, 1998.09.07, *prof.dr.ir. A. van den Beukel*
- 3172 Arjen Boersma**, A dielectric study on the microstructure in polymers and blends. Orientation, crystallization and interfacial phenomena in a liquid crystalline polymer and its blends, CHEM, 1998.09.07, *prof.dr.ir. J. van Turnhout*

3173 Robert Kreuger, Time reversal asymmetry in the neutral kaon system and antiproton beam control at the CPLEAR experiment, PHYS. 1998.09.07, *prof.dr.ir. C.W.E. van Eijk*

3174 Johan Wilhelmus Hendrik Tangelder, Automated fabrication of shape models of free-form objects with a sculpturing robot, MECH. 1998.09.08, *prof.dr.ir. I. Horvath, prof.dr. M.H. Overmars*

3175 Christian Christoffel Marijn Tiberius, Recursive data processing for kinematic GPS surveying, GEOD. 1998.09.08, *prof.dr.ir. P.J.G. Teunissen*

3176 Damir Brdanovic, Modeling biological phosphorus removal in activated sludge systems, CIVI. 1998.09.08, *prof.dr.ir. G.J.F.R. Alaerts, prof.dr.ir. J.J. Heijnen*

3177 Remco Ayolt Menso Coenen, Design of a quality assurance system for structural laminates, AERO. 1998.09.14, cum laude, *prof.ir. L.B. Vogelesang*

3178 Pieter Albert Nooren, Stochastic modeling of turbulent natural-gas flames, PHYS. 1998.09.14, *prof.dr. D.J.E.M. Roekaerts, prof.dr.Dipl.-Ing. K. Hanjalic*

3179 Adriaan Pieter van 't Veer, Behaviour of catamarans in waves, MARI. 1998.09.14, *prof.dr.ir. J.A. Pinkster*

3180 Frédéric Jacques Périard, Wheel-rail noise generation: Curve squealing by trams, MATH. 1998.09.15, *prof.dr.ir. J.J. Kalker*

3181 Roland Frits Bekendam, Pillar stability and large-scale collapse of abandoned room and pillar limestone mines in South-Limburg, the Netherlands, GEOS. 1998.09.15, *prof. D.G. Price, prof.dr. J. Uriai*

3182 Petrus Casper Jozef Casper, Discrete elements and nonlinearity in design of structural concrete walls, CIVI. 1998.09.15, *prof.dr.ir. J. Blaauwendraad*

3183 Oliver Wolfgang Fähnle, Shaping and finishing aspherical optical surfaces, PHYS. 1998.09.21, cum laude, *prof.dr.ir. H.J. Frankena*

3184 Willem Oostra, An experimental approach into the phenomenon of thermophoresis, CHEM. 1998.09.21, *prof. M.Sc. B. Scarlett*

3185 Timotheus Rudolf André de Rijk, Het elektrische huis. Vormgeving en acceptatie van elektrische huishoudelijke apparaten in Nederland, IDEE. 1998.09.21, *prof.ir. J.J. Jacobs, prof.dr. J.W. Drukker*

3186 Hilda Irene van der Veen, The significance and use of eigenvalues and eigenvectors in the numerical analysis of elasto-plastic soils, CIVI. 1998.09.22, *prof.dr.ir. R. de Borst, prof.dr.ir. P. Wesseling*

3187 Chun-hua Chen, Thin-film components for lithium-ion batteries, CHEM. 1998.09.22, *prof.dr. J. Schoonman*

3188 Peter Henri Willems, Conceptual modelling of structure and shape of complex civil engineering, CIVI. 1998.09.22, *prof.ir. F.P. Tolman*

3189 Sylvia Caroline Mooij, Product communication and information. The product as a medium in marketing communications, IDEE. 1998.09.28, *prof.dr. W.M. Oppedijk van Veen, prof.dr. H.S.J. Robben*

3190 Edward Jan Breeuwer, On the application of integrated navigation in traffic and transportation, ELEC. 1998.09.28, *prof.dr.in. D. van Willigen*

3191 Cornelis Jacobus Nicasius Maria van der Palen, Biosynthesis of methylamine dehydrogenase and its quinone cofactor TTQ, LIFE, 1998.09.28, *prof.dr.ir. J.A. Duine*

3192 Rudolfine Antoinette Eggink, J.B. van Lochem, architect van een optimistische generatie, HASS, 1998.09.29, *prof.ir. J. Brouwer*

3193 Paul Jozef de Jonge, A processing strategy for the application of the GPS in networks, GEOD, 1998.09.29, *prof.dr.ir. P.J.G. Teunissen*

3194 Paul Brasser, Recycling of surfactants from waste water of laundry washing plants, LIFE, 1998.09.29, *prof.dr. G. Frens*

3195 Alexandra Apolonia Bellekom, Origins of offset in conventional and spinning-current Hall plates, ELEC, 1998.10.05, *prof.dr.ir. S. Middelhoek*

3196 Paul Peter van Lingen, Quantification and reduction of capillary entrapment in cross-laminated oil reservoirs, GEOS, 1998.10.05, *prof.ir. C.P.J. W. van Kruijsdijk*

3197 Robert Frans Remis, Reduced-order modeling of transient electromagnetic fields, ELEC, 1998.10.05, *prof.dr.ir. P.M. van den Berg, prof.dr.ir. H. Blok*

3198 Tullio Pietro Maria Vardanega, Development of on-board embedded real-time systems: an engineering approach, INFO, 1998.10.06, *prof.dr.ir. J. van Katwijk*

3199 Suzan Annemarie van der Aart, Nanometer superstructure in some liquid alloys: a neutron diffraction study, PHYS, 1998.10.06, *prof.dr.ir. L.A. de Graaf, prof.dr. W. van der Lugt*

3200 Jan Mulder, Static and dynamic translinear circuits, ELEC, 1998.10.06, *prof.dr.ir. A.H.M. van Roermund*

3201 Petie Maria Slangen, Zeolite synthesis using rapid heating methods towards continuous synthesis, CHEM, 1998.10.12, *prof.dr.ir. H. van Bekkum*

3202 Raymond Arnoud de Callafon, Feedback oriented identification for enhanced and robust control. A fraction approach applied to a wafer stage, MECH, 1998.10.13, *prof.ir. O.H. Bosgra*

3203 Robbert Jack van Beers, Integration of visual and proprioceptive position-information, MARI, 1998.10.13, *prof.dr. C.C.A.M. Gielen, prof.dr. J. Asman*

3204 Karin de Jong, Tidally averaged transport models, MATH, 1998.10.13, *prof.dr.ir. A.W. Heemink*

3205 Joost Adriaan Willemen, Modelling of amorphous silicon single- and multi-junction solar cells, ELEC, 1998.10.16, *prof.dr. M. Kleefstra, prof.dr.ir. J.W. Slotboom*

3206 Martijn Jan Goossens, Analog neural networks in single-electron tunneling technology, ELEC, 1998.10.19, *prof.dr.ir. A.H.M. van Roermund*

3207 Sander Valentijn Meijerink, Conflict and cooperation on the Scheldt river basin, ADMI, 1998.10.19, *prof.dr. J. Wessels*

3208 Robert Adriaan van den Broeke, Strategisch voorraadbeleid van woningcorporaties: informatievoorziening en instrumenten, ADMI, 1998.10.19, *prof.dr.ir. H. Priemus*

3209 Maja Keijzer, Ceramic and metallic coatings for corrosion protection of separator plates in molten-carbonate fuel cells, MATE, 1998.10.20, *prof.dr. J.H.W. de Wit, prof.dr. J. Schoonman*

- 3210 Gepke Alies Bartelds**, The influence of inaccessible and excluded pore volume on polymer flooding, GEOS, 1998.10.20, *prof.dr.ir. J. Hagvoort*
- 3211 Aarnoud Hoekstra**, Generalisation in feed forward neural classifiers, PHYS, 1998.10.20, *prof.dr. I.T. Young*
- 3212 Ali Taheri Motlagh**, Durability of reinforced concrete structures in aggressive marine environment, CIVI, 1998.11.02, *prof.dr.ir. J.C. Wahvaven*
- 3213 Erwin Rinaldo Meinders**, Experimental study of heat transfer in turbulent flows over wall-mounted cubes, PHYS, 1998.11.02, *prof.dr.Dipl.-Ing. K. Hanjalić*
- 3214 Frank Hashagen**, Numerical analysis of failure mechanisms in fibre metal laminates, AERO, 1998.11.02, *prof.dr.ir. R. de Borst, prof.ir. L.B. Vogelesang*
- 3215 Jürg Manfred Thölke**, Product feature management. A multiple case investigation into the nature of product features and product feature decision making, IDEE, 1998.11.03, *prof.dr. W.M. Oppedijk van Veen, prof.dr. H.S.J. Robben, prof.dr. J.E. van Aken*
- 3216 Gert Rebel**, Finite rotation shell theory including drill rotations and its finite element implementation, AERO, 1998.11.03, *prof.dr. J. Arbocz*
- 3217 Robert Petrus Adrianus Hartman**, Electrohydrodynamic atomization in the cone-jet mode. From physical modeling to powder production, CHEM, 1998.11.03, *prof. M.Sc. B. Scarlett*
- 3218 Leonardus Daniël van Ee**, The diffusion mechanism in amorphous Ni_4B , studied by molecular dynamics simulations, MATE, 1998.11.03, *prof.dr.ir. A. van den Beukel*
- 3219 Erick Gitana Septanika**, A time-dependent constitutive model for filled and vulcanized rubbers, MECH, 1998.11.09, *prof.dr.ir. L.J. Ernst*
- 3220 Hans Ernest Bert Lempers**, Heterogeneously and homogeneously metal-catalyzed oxidations in the liquid phase, CHEM, 1998.11.09, *prof.dr. R.A. Sheldon*
- 3221 Alexander Willem Willemse**, Optical measuring techniques for particulate systems at fringes of concentration, CHEM, 1998.11.09, *prof. M.Sc. B. Scarlett*
- 3222 Adrianus Jacobus Maria Leijten**, Densified veneer wood reinforced timber joints with expanded tube fasteners. The development of a new timber joint, CIVI, 1998.11.10, *prof.dr.ir. J. Wardenier*
- 3223 Paulus Cornelis de Jong**, Smart sensor systems for high-temperature applications, ELEC, 1998.11.10, *prof.dr.ir. A.H.M. van Roermund*
- 3224 Gerrit Schram**, Intelligent flight control - a fuzzy logic approach, ELEC, 1998.11.10, *prof.ir. H.B. Verbruggen*
- 3225 Johan Christiaan Elkenbracht**, Mechanistic studies of the stress-corrosion cracking behaviour of oriented Cu_{30}Zn single crystals in NaNO_3 solutions, MATE, 1998.11.12, *prof.dr. J.H. W. de Wit, prof.dr. B.D. Licher*
- 3226 Edwin Theodorus Antonius van der Weide**, Compressible flow simulation on unstructured grids using multi-dimensional upwind schemes, AERO, 1998.11.12, *prof.dr.ir. P.G. Bakker, prof.dr. H. Deconinck*

3227 Philip Marie Adriaan de Graaf, How to design an intelligent anesthesia monitor. Safety and cognition based design in anesthesia monitoring, ADMI, 1998.11.12, *prof.dr.mr. B.A.J.M. de Mol, prof.dr. A.R. Hale*

3228 Rolf Verberg, Transport properties in concentrated colloidal suspensions, PHYS, 1998.11.16, *prof.dr.ir. L.A. de Graaf, prof.dr. H. van Beijeren*

3229 Maria Elisabeth Hubertina Creusen, Product appearance and consumer choice, IDEE, 1998.11.16, *prof.dr. W.M. Oppedijk van Veen*

3230 Patricia Gubbels, Metabolic fluxes at the interface of glycolysis and TCA cycle in *saccharomyces cerevisiae*, LIFE, 1998.11.16, *prof.dr. J.G. Kuenen*

3231 Mark Paul Waldemar Vreijling, Electrochemical characterisation of metallic thermally sprayed coatings, MATE, 1998.11.20, *prof.dr. J.H.W. de Wit*

3232 Remco Cornelis Willemse, Formation and stability of blends with a co-continuous morphology, CHEM, 1998.11.23, *prof.dr.ir. A. de Posthuma de Boer*

3233 Aart Carel Voorrips, Sequential data assimilation methods for ocean wave models, MATH, 1998.11.23, *prof.dr.ir. A.W. Heemink*

3234 Uzay Kaymak, Fuzzy decision making with control applications, ELEC, 1998.11.23, *prof.ir. H.B. Verbruggen*

3235 David Dominique Bernard van Bragt, Analytical modeling of boiling water reactor dynamics, PHYS, 1998.11.24, cum laude, *prof.dr.ir. H. van Dam*

3236 Dignus-Jan Moelker, Interference in satellite navigation and mobile communication, ELEC, 1998.11.24, *prof.dr.ir. D. van Willigen*

3237 Jan Pieter van der Lugt, Evaluation of methods for chemical and biological carbohydrate oxidation, LIFE, 1998.11.24, *prof.dr.ir. J.A. Duine, prof.dr.ir. H. van Bakkum*

3238 Robert van Tol, Mould filling of horizontal thin-wall castings, PHYS, 1998.11.30, *prof.dr.ir. H.E.A. van den Akker, prof.ir. L. Katgerman*

3239 Jacob Groenendijk, Accelerated testing and surface cracking of asphaltic concrete pavements, CIVI, 1998.11.30, *prof.dr.ir. A.A.A. Molenaar*

3240 George Bogdan Arsintescu, Constraint management and transformations, ELEC, 1998.11.30, *prof.dr.ir. R.H.J.M. Otten*

3241 John Roland Farserotu, On wide area networking via ATM over Ka-band SATCOM with CDMA, ELEC, 1998.12.01, *prof.dr. J.C. Arnbak*

3242 Jacobus Jan Meeuwssen, Reliability of electric transmission and distribution systems, ELEC, 1998.12.01, *prof.ir. W.L. Kling*

3243 Otto Leonard Oudshoorn, Zeolitic coatings applied in structured catalyst packings, CHEM, 1998.12.01, *prof.dr.ir. H. van Bakkum, prof.ir. C.M. van den Bleek*

3244 Stefano Stramigioli, From differentiable manifolds to interactive robot control, ELEC, 1998.12.04, cum laude, *prof.ir. G. Honderd, prof.dr. G.J. Olsder*

3245 Michael Johannes Leonardus van Tooren, Sandwich fuselage design, AERO, 1998.12.07, *prof.dr.ir. Th. de Jong*

 **3246 Hindrik Willem de Vries**, Weldability of aluminium-matrix composites, MATE, 1998.12.07, *prof.dr. G. den Ouden*

3247 Frank Thomas Kühn, Electrical capacitance tomography. Development and application to fluidised beds, CHEM, 1998.12.07, *prof. M.Sc. B. Scarlett, prof.ir. C.M. van den Bleek*

3248 Paulus Adrianus Johannes Verlaan, Mixing of marine and fluvial particles in the Scheldt estuary, CIVI, 1998.12.08, *prof.dr. M. Donze*

3249 Albertus Gerardus Arnold, Action facilitation and interface evaluation, HASS, 1998.12.08, *prof.dr. J.H.T.H. Andriessen, prof.dr. R.A. Roe*

3250 Pleun Joris Visser, Breach growth in sand dikes, CIVI, 1998.12.08, *prof.dr.ir. J.A. Battjes*

3251 Hugo Martijn Letzel, Hydrodynamics and mass transfer in bubble columns at elevated pressures, CHEM, 1998.12.09, *prof.ir. C.M. van den Bleek, prof.dr. R. Krishna*

3252 Mathijs Johan Knitel, New inorganic scintillators and storage phosphors for detection of thermal neutrons, PHYS, 1998.12.11, *prof.dr.ir. C.W.E. van Eijk*

3253 Swie Lan Njo, Computational chemistry approaches to zeolite frameworks and their interactions with structure directing agents, CHEM, 1998.12.14, *prof.dr. R.A. Sheldon*

3254 Pieter Jacob Verveer, Computational and optical methods for improving resolution and signal quality in fluorescence microscopy, PHYS, 1998.12.14, cum laude, *prof.dr. J.T. Young*

3255 Gerardus Hermanus Loosschilder, The interactive concept test. Analysing consumer preferences for product design, IDEE, 1998.12.14, *prof.dr. W.M. Oppedijk van Veen*

3256 Henry Simon Dol, Turbulence models for natural convection in side-heated enclosures, PHYS, 1998.12.15, *prof.dr. Dipl.-Ing. K. Hanjalic*

3257 Eric Philippus Hendricus Adianus Verdult, Drilling back. Design and development of a directional drilling device, new spinal anchoring technique, MECH, 1998.12.15, cum laude, *prof.ir. J.C. Cool*

3258 Gerwin Hermanus Gelinck, Excitons and polarons in luminescent conjugated polymers. A flash-photolysis and pulse-radiolysis study, CHEM, 1998.12.15, *prof.dr. A. Hummel*

3259 Mark Ivar Visscher, Transport in mesoscopic charge density wave systems, PHYS, 1998.12.17, *prof.dr.ir. G.E.W. Bauer*

3260 Maarten Joannes Joseph Maria van de Ven, Instructies bij computersimulaties in her technisch onderwijs, HASS, 1998.12.17, *prof.dr. W.M.G. Jochems*

3261 Paulus Johannes Kunkeler, Modification and catalytic application of zeolite beta, CHEM, 1998.12.17, *prof.dr.ir. H. van Bekkum*

3262 Maarten Clement, Positrons in the MOS system, PHYS, 1998.12.18, *prof.dr. A. van Veen, prof.dr.ir. S. Radelaar*

3263 Wouter Sjoerdsma, Surgeons at work. Time and actions analysis of the laparoscopic surgical process, MECH, 1998.12.18, *prof.dr.ir. C.A. Grimbergen, prof.dr.ir. H.G. Stassen*

3264 André Johannes Maria Jorissen, Double shear timber connections with dowel type fasteners, CIVI, 1998.12.21, *prof.dr.ir. J. Wardenier, prof.Dr.-Ing. H.J. Blass*

3265 Cornelis Both, The fire resistance of composite steel-concrete slabs, CIVI, 1998.12.21, *prof.ir. J.W.B. Stark, prof.dr.ir. J. Wardenier*

3266 Marinus Hendrik Konijnenburg, Automatic test pattern generation for synchronous sequential circuits, INFO, 1998.12.21, *prof.dr.ir. A.J. van de Goor*

3267 Josephus Hubertus Franciscus Maria Klep, Arithmeticus. Simulatie van wiskundige bekwaamheid. Computerprogramma's voor het generatief en adaptief plannen van inzichtelijk oefenen in het reken-wiskundeonderwijs, SCGE, 1998.12.22, cum laude, *prof.dr. H.G. Sol*

3268 Gerben Dick de Winkel, The static strength of I-beam to circular hollow section column connections, CIVI, 1998.12.22, *prof.dr.ir. J. Wardenier*

3269 Franciscus Rudolphus Antonius Maria Standaert, Analytical fuel cell modelling and exergy analysis of fuel cells, MECH, 1998.12.22, *prof.ir. R.W.J. Kouffeld, prof.dr. J.H.W. de Wit*

3270 Wridzer Jan Bakker, Structured systems in gas separation, CHEM, 1999.01.11, *prof.dr. J.A. Moulijn*

3271 Henricus Petrus Maria Pellemans, Free-electron laser studies of III-V semiconductors, PHYS, 1999.01.11, *prof.dr. W.Th. Wenckebach*

3272 Gijsbert Michiel Peter van Kempen, Image restoration in fluorescence microscopy, PHYS, 1999.01.11, *prof.dr. I.T. Young*

3273 Michel Johannes Gertuda van Eeten, Dialogues of the Deaf- Defining new agendas for environmental deadlocks, HASS, 1999.01.12, *prof.dr.mr. E.F. ten Heuvelhof*

3274 Jolinde Machteld van de Graaf, Permeation and separation properties of supported silicalite-1 membranes. A modeling approach, CHEM, 1999.01.12, *prof.dr. J.A. Moulijn*

3275 Johannes Hendrik Koegler, Zeolite coatings: from fundamentals to applications, CHEM, 1999.01.12, *prof.dr.ir. H. van Bekkum*

3276 Gerardus Maria Sluimer, Ultimate performance of GRP-laminates under in-plane biaxial loading, CIVI, 1999.01.14, *prof.dr.ir. Y.M. de Haan*

3277 Valeri Lvovitsj Markine, Optimization of the dynamic behaviour of mechanical systems, MECH, 1999.01.14, *prof.dr.ir. P. Meijers*

3278 Kerstin Gauter, Fluid multiphase behavior in ternary systems of near-critical CO₂. Measurements, modelling and computation, CHEM, 1999.01.18, *prof.dr.ir. J. de Swaan Arons*

3279 Gerard Cornelis van den Eijkel, Fuzzy probabilistic learning and reasoning, ELEC, 1999.01.18, *prof.dr.ir. E. Backer*

3280 Frank Robbert Boddeke, Quantitative fluorescence microscopy, PHYS, 1999.01.18, *prof.dr. I.T. Young*

- 3281 Tjerk Hendrik Oosterkamp**, Artificial atoms and molecules: on many body effects and coherence in semiconductor quantum dots, PHYS. 1999.01.22, cum laude, *prof.dr.ir. J.E. Mooij*
- 3282 Albert Carl Jan Kienhuis**, Design space exploration of stream-based dataflow architectures. Methods and tools, ELEC. 1999.01.29, *prof.dr.ir. P.M. Dewilde*
- 3283 Kasper Frederik Immanuel Haak**, Multi-frequency nonlinear profile inversion methods, ELEC. 1999.02.01, *prof.dr.ir. P.M. van den Berg*
- 3284 Hester Bijl**, Computation of flow at all speeds with a staggered scheme, MATH. 1999.02.01, *prof.dr.ir. P. Wesseling*
- 3285 Helmar van Santen**, Mixed-convection instabilities in chemical vapor deposition reactors, PHYS. 1999.02.01, cum laude, *prof.dr.ir. H.E.A. van den Akker*
- 3286 Yanling Sun**, Monolithically integrated silicon bipolar RF Oscillators, ELEC. 1999.02.02, *prof.dr.ir. R.F.G. Baets*
- 3287 Sasa Kenjeres**, Numerical modelling of complex buoyancy-driven flows, PHYS. 1999.02.02, *prof.dr. Dipl.-Ing. K. Hanjalić*
- 3288 Cornelis Sjouke Stellema**, Radiotracers for gas/solids flows in (interconnected) fluidized beds, CHEM. 1999.02.02, *prof.dr.ir. J.J.M. de Goeij, prof.ir. C.M. van den Bleek*
- 3289 Rafael Cañizares Torre**, On the application of data assimilation in regional coastal models, CIVI. 1999.02.08, *prof.dr. M.B. Abbott, prof.dr.ir. A.W. Heemink*
- 3290 Ibrahim Hadzic**, Second-moment closure modelling of transitional and unsteady turbulent flows, PHYS. 1999.02.08, *prof.dr. Dipl.-Ing. K. Hanjalić*
- 3291 Hein Valk**, Development of advanced silicon drift detectors, PHYS. 1999.02.08, *prof.dr.ir. C.W.E. van Eijk*
- 3292 Lode Kristiaan Jules Marcel Vermeersch**, Neural structure characterisation of ill-defined systems, INFO. 1999.02.09, *prof.dr. H. Koppelaar, prof.dr. M. Donze*
- 3293 Martijn Johan Fransen**, Towards high-brightness, monochromatic electron sources, PHYS. 1999.02.09, *prof.dr.ir. P. Kruit*
- 3294 Regina Maria Josefa Bokel**, Electron microscopy techniques on the improvement of grain boundary structure determination, MATE. 1999.02.16, *prof.dr.ir. E.J. Mittemeijer*
- 3295 Jan Cornelis Sabel**, Calibration and 3D reconstruction for multicamera marker based motion measurement, PHYS. 1999.02.22, *prof.dr.ir. A. van den Bos*
- 3296 Ronald Losekoot**, Gauging the difference that makes a difference. A framework for valuation of information, INFO. 1999.02.22, *prof.dr. B.K. Brussaard*
- 3297 Pascal Robert Michel Storch**, Calculation methods for the prediction of the absorbed dose in radiotherapy physics, LIFE. 1999.02.23, *prof.dr.ir. A.J. Hermans*
- 3298 John Campbell Gibson**, Development of a methodology for excellence in handling qualities design for fly by wire aircraft, AERO. 1999.02.23, *prof.dr.ir. J.A. Mulder, prof.dr.ir. H.G. Stassen*
- 3299 Willem Martin de Jong**, Institutional transplantation. How to adopt good transport infrastructure decision-making ideas from other countries, ADMI. 1999.03.01, *prof.dr.mr. E.F. ten Heuvelhof*

3300 Paulien Minke Herder, Process design in a changing environment. Identification of quality demands governing the design process, ADMI, 1999.03.01, *mu.prof.dr.ir. M.P.C. Weijnen, prof.ir. J. Grievink*

3301 Ole Tonni Karlsen, Quantitative MR perfusion imaging using arterial blood water as a natural marker, PHYS, 1999.03.02, *prof.dr.ir. A.F. Mehlkopf*

3302 Clemens Gerardus Johannes Maria van der Nat, A knowledge-based concept exploration model for submarine design, MARI, 1999.03.02, *prof.ir. J. Klein Woud, prof.ir. D. Stapersma*

3303 Klaas-Jan de Langen, Advanced low-voltage and high-speed techniques for BiCMOS, CMOS and bipolar operational amplifiers, ELEC, 1999.03.08, *prof.dr.ir. J.H. Huijsing*

3304 Frans van Walree, Computational methods for hydrofoil craft in steady and unsteady flow, MARI, 1999.03.09, *prof.dr.ir. G. Kuiper*

3305 Johannes Christiaan van't Spijker, Luminescence and scintillation of Ce^{3+} doped inorganic materials for gamma-ray detection, PHYS, 1999.03.15, *prof.dr.ir. C.W.E. van Eijk*

3306 Erik Tempelman, Sustainable transport and advanced materials, MECH, 1999.03.15, *prof.ir. W.L. Dalmijn, prof.ir. L.B. Vogelesang*

3307 Cécile Martine Combes, Scintillation properties of 6Li -based materials for thermal neutron detection, PHYS, 1999.03.16, *prof.dr.ir. C.W.E. van Eijk*

3308 Remke Marleen Klapwijk, Adjusting life cycle assessment methodology for use in public policy discourse, ADMI, 1999.03.16, *prof.dr.ir. W.A.H. Thissen*

3309 Willem Johannes Kindt, Geiger mode avalanche photodiode arrays for spatially resolved single photon counting, ELEC, 1999.03.22, cum laude, *prof.dr.ir. S. Middelhoek*

3310 Paulus Thomas Johannes Genissen, Micromachining techniques using layers grown in an epitaxial reactor, ELEC, 1999.03.22, *prof.dr.ir. S. Middelhoek*

3311 Rudolf Albertus Rikers, Characterization of heavy metals in soils using magnetic separation, MATE, 1999.03.23, *prof.ir. W.L. Dalmijn, prof.dr.ir. R.H. Heerema*

3312 Bernard Marie Mols, Particle dispersion and deposition in horizontal turbulent channel and tube flows, PHYS, 1999.03.23, *prof.dr. R.V.A. Oliemans*

3313 Arie Rogier Marie Wolfert, Wave effects in one-dimensional elastic systems interacting with moving objects, CIVI, 1999.03.29, *prof.dr.ir. R. de Borst*

3314 Jacek Jarmulak, Case-based reasoning for NDT data interpretation, INFO, 1999.04.06, *prof.dr. H. Koppelaar*

3315 Johannes van Wingerden, Growth mechanisms during homoepitaxial growth of silicon, PHYS, 1999.04.06, *prof.dr.ir. F. Tuinstra*

3316 Ignatius Armatessa Sadarjoen, Extraction and visualization of geometries in fluid flow fields, INFO, 1999.04.12, *prof.dr.ir. F.W. Jansen*

3317 Jan Maarten Kersloot, (Des)investerings- en huurprijsbeleid van verhuurders van woningen, HASS, 1999.04.12, *prof.dr.ir. H. Priemus*

3318 Harm Veenstra, A Study on co-continuous morphologies in polymer blends. Formation, stability and properties, CHEM, 1999.04.13, *prof.dr.ir. A. de Posthuma de Boer*

3319 Dolf Jean Gielen, Materialising dematerialisation. Integrated energy and materials systems engineering for greenhouse gas emission mitigation, LIFE, 1999.04.13, *prof.dr.ir. J.C. Brezet, muw, prof.dr.ir. M.P.C. Weijnen*

3320 Alaa Mohamed Aly Mohamed Abdelkarim, Dynamic response of an elastic layered half-space, CIVI, 1999.04.19, *prof.Dipl.-Ing. J.N.J.A. Vambersky, prof.ir. A.C.W.M. Vrouwenvelder*

3321 Fabian Edgar Ernst, Modeling, imaging and removal of guided waves, MATH, 1999.04.19, cum laude, *prof.dr.ir. A.J. Hermans*

3322 Bernadette Gabriëlle Hubertine Maria Wichman, Consolidation behaviour of gassy mud: theory and experimental validation, CIVI, 1999.04.19, *prof.dr.ir. A. Verruijt*

3323 Bastiaan Willem van Hasselt, The three-levels-of-porosity reactor. A novel structured catalyst packing for countercurrent trickle-flow processes, CHEM, 1999.05.03, *prof.ir. C.M. van den Bleek, prof.dr.ir. S.T. Sie*

3324 Damien Michel André Camelot, The bipolar coagulation process for powder production. An application of the electrohydrodynamic atomization of liquids, CHEM, 1999.05.03, *prof. M.Sc. B. Scarlett*

3325 Ulrike Anna Dauderstadt, A thermal accelerometer, ELEC, 1999.05.04, *prof.dr.ir. S. Middelhoek*

3326 Henricus Johannes Louis Marie Vullings, Biomedical waveform validation, ELEC, 1999.05.04, *prof.ir. H.B. Verbruggen, prof.dr.ir. J. Biemond*

3327 Adinda Freudenthal, The design of home appliances for young and old consumers, IDEE, 1999.05.10, *prof.dr. Eur Ing J.M. Dirken, prof.dr. A.J.W.M. Thomassen*

3328 Suzanne Gabriëlle Everdine te Velthuis, Phase transformations in steel. A neutron depolarization study, MATE, 1999.05.10, *prof.dr.ir. S. van der Zwaag*

3329 Jose Higino Gomes Correia, Optical microsystems in silicon based on a fabry-perot resonance cavity. Application for spectral analysis of visible light, ELEC, 1999.05.11, *prof.dr.ir. J.H. Huijsing*

3330 Fulko Cornelis van Westrenen, The maritime pilot at work. Evaluation and use of a time-to-boundary model of mental workload in human-machine systems, HASS, 1999.05.11, *prof.dr. A.R. Hale*

3331 Antonio Rafael Emiliano Biddara de Almeida, Validity maintenance in semantic feature modeling, INFO, 1999.05.17, *prof.dr.ir. F.W. Jansen*

3332 Bonifacius Bima Prananta, Physical and numerical aspects of aerolastic simulations, AERO, 1999.05.17, *prof.ir. R.J. Zwaan, prof.dr.ir. H.W.M. Hoeijmakers*

3333 Geert Cornelis Krijger, Technetium in tomato plants: approaches, accumulation and metabolism, LIFE, 1999.05.17, *prof.dr.ir. J.J.M. de Goeij, prof.dr. C. Kollöffel*

3334 Abraham Cornelis Kruseman, Two-dimensional ACAR and low-background DBAR studies on materials with defects, PHYS, 1999.05.17, *prof.dr. A. van Veen, prof.dr.ir. H. van Dam*

3335 Rieuwert Jan Blok, On geometries related to buildings, MATH, 1999.05.18, *prof.dr.ir. Th.H.M. Smits, prof.dr. A.E. Brouwer*

3336 Cornelis Johannes Wisse, On frequency dependence of acoustic waves in porous cylinders, MECH, 1999.05.18, cum laude, *prof.ir. M. Peeters, prof.dr.ir. M.E.H. van Dongen*

3337 Adrianus Johannes Hermanus Maria Reniers, Longshore current dynamics, CIVI, 1999.05.21, cum laude, *prof.dr.ir. J.A. Battjes*

3338 Abraham van Poortvliet, Risks, disasters and management. A comparative study of three passenger transport systems, HASS, 1999.05.25, *prof.dr.ir. W.A.H. Thissen, prof.dr. U. Rosenthal*

3339 Adriaan Herman de Bondt, Anti-reflective cracking design of (reinforced) asphaltic overlays, CIVI, 1999.05.25, *prof.dr.ir. A.A.A. Molenaar*

3340 Miguel Angel Gutierrez de la Merced, Objective simulation of failure in heterogeneous softening solids, CIVI, 1999.05.25, cum laude, *prof.dr.ir. R. de Borst*

3341 Anna Margaretha van der Heijden, Synthesis of fructose-based surfactants, CHEM, 1999.05.31, *prof.dr.ir. H. van Bekkum*

3342 Huibert Dubbelman, Maatschappelijke golven in de waterbouwkunde, HASS, 1999.05.31, *prof.dr.ir. J.K. Vrijling, prof.dr.ir. H.A.J. de Ridder*

3343 Onno Cornelis Mantel, Mesoscopic charge density wave wires, PHYS, 1999.06.04, *prof.dr.ir. J.E. Mooij, prof.dr. C. Dekker*

3344 Ronald van der Ham, Turbulent exchange of fine sediments in tidal flow, CIVI, 1999.06.04, *prof.dr.ir. J.A. Battjes*

3345 Hans Grünfeld, Creating favorable conditions for international environmental change through knowledge and negotiation, ADMI, 1999.06.14, *prof.dr.ir. W.A.H. Thissen, prof.dr.ir. R. Rabbinge*

3346 Nicole Schoumans, Influence of context on visual space, HASS, 1999.06.14, *prof.dr. J.J. Koenderink, prof.dr.ir. C.J. Snijders*

3347 Pieter Alexander Donker, Structuring communication in the architectural forum for on-line design, ARCH, 1999.06.16, *prof. A. Tzonis*

3348 John Linke Heintz, Coordinating collaborative building design, ARCH, 1999.06.16, *prof. A. Tzonis*

3349 Corinne Kruger, Cognitive strategies in industrial design engineering, IDEE, 1999.06.17, *prof.dr.ir. N.G. Cross, prof.dr. B.J. Wielinga*

3350 Johannes Gerardus Maria Schavemaker, Document interpretation applied to public-utility maps, ELEC, 1999.06.18, *prof.dr.ir. E. Backer*

3351 Arjan van Dijk, Aliasing in one-point turbulence measurements. Theory, DNS and hotwire experiments, MECH, 1999.06.25, *prof.dr.ir. F.T.M. Nieuwstadt*

3352 Barcholomeus Cornelis Hubertus Venneker, Turbulent flow and gas dissipation in stirred vessels with pseudoplastic liquids, PHYS, 1999.06.25, *prof.dr.ir. H.E.A. van den Akker*

- 3353 Jennifer Paula Kockx**, Experiments on the gas exchange between a Taylor bubble and its liquid slug in a vertical tube, *PHYS.* 1999.06.25, *prof.dr. R.V.A. Oliemans, prof.dr.ir. F.T.M. Nieuwstadt*
- 3354 Jan Willem Hubert Maes**, Microstructural and electrical properties of silicon point contacts, *MATE.* 1999.06.28, *prof.dr.ir. S. Radelaar*
- 3355 Ren van Geemert**, Nuclear reactor reload pattern optimization by application of heuristic search and perturbation theoretical methods, *PHYS.* 1999.06.28, *prof.dr.ir. H. van Dam*
- 3356 Saskia Maria Petrouchka Blom**, Relative permeability to near-miscible fluids, *PHYS.* 1999.06.28, *prof.dr.ir. J. Hagoort*
- 3357 Hugo Herman Maria Verheul**, Milieutechnologie in het midden- en kleinbedrijf. Een handleiding voor professionals, *HASS.* 1999.09.07, *prof.dr.mr. E.F. ten Heuvelhof*
- 3358 Michiel Manuel Minderhoud**, Supported driving. Impacts on motorway traffic flow, *CIVI.* 1999.09.07, *prof.dr.ir. P.H.L. Bovy*
- 3359 Sipke Sander de Vries**, Thermodynamic and economic principles and the assessment of bioenergy, *CHEM.* 1999.09.07, *prof.dr.ir. J. de Swaan Arons, prof.dr.ir. J. de Graauw*
- 3360 Arthur James Edward Smith**, Application of satellite altimetry for global ocean tide modeling, *AERO.* 1999.09.13, *prof.ir. K.F. Wakker*
- 3361 Harm Wubbo Frikken**, Reservoir-geological aspects of productivity and connectivity of gasfields in the Netherlands, *GEOS.* 1999.09.13, *prof.dr.s. F.R. van Veen*
- 3362 Joost Victor Lodewijk Beckers**, Molecular simulation of porous silica and B-alumina using a scalable method for electrostatic interactions, *GEOS.* 1999.09.13, *prof.dr. S.W. de Leeuw*
- 3363 Mingchuan Ruan**, Computational modelling of emission from combined sewer overflows, *CIVI.* 1999.09.14, *prof.ir. J.B.M. Wiggers*
- 3364 Marcel Thierry Flikweert**, Physiological roles of pyruvate decarboxylase in *saccharomyces cerevisiae*, *LIFE.* 1999.09.14, *prof.dr. J.G. Kuenen*
- 3365 Adriaan Joseph Jan Olsthoorn**, Structural and mechanistic aspects of soluble quinoprotein glucose dehydrogenase from *acinetobacter calcoaceticus*, *LIFE.* 1999.09.14, *prof.dr.ir. J.A. Duine*
- 3366 Paul Joseph Maria Lebens**, Development and design of a monolith reactor for gas-liquid countercurrent operation, *CHEM.* 1999.09.15, *prof.dr. J.A. Moulijn, prof.dr.ir. S.T. Sie*
- 3367 Serge Paul Hoogendoorn**, Multiclass continuum modelling of multilane traffic flow, *CIVI.* 1999.09.20, *cum laude, prof.dr.ir. P.H.L. Bovy*
- 3368 Teun Bakker**, Softening in the blast furnace process. Local melt formation as the trigger for softening of ironbearing burden materials, *MATE.* 1999.09.20, *prof.dr.ir. R.H. Heerema*
- 3369 Catarine Marjoleine Janssen**, Grain size influence on sediments transport in oscillatory sheet flow. Phase lags and mobile-bed effects, *CIVI.* 1999.09.20, *prof.ir. K. d'Angremont, prof.dr.ir. J.A. Battjes*

- 3370 Hans Rudi Eduard van Maanen**, Retrieval of turbulence and turbulence properties from randomly sampled laser-doppler anemometry data with noise, MECH, 1999.09.21, *prof.dr.ir. G. Ooms, prof.dr. C. Tropea*
- 3371 Sonia Salgueiro Machado**, Enantioselective properties of acetobacter pasteurianus and its quinoprotein alcohol dehydrogenase, LIFE, 1999.09.21, *prof.dr.ir. J.A. Duine*
- 3372 Floris George Hendrik van den Broek**, Management of international networks. Influence of telecommunications services on cost-effective management, INFO, 1999.09.21, *prof.dr.ir. M. Looijen*
- 3373 Geraldine Miriam O'halloran**, Capacitive humidity sensor based on porous silicon, ELEC, 1999.09.27, *prof.dr. P.J. French, prof.dr.ir. S. Middelhoek*
- 3374 Agnieszka Joanna Bigaj**, Structural dependence of rotation capacity of plastic hinges in RC beams and slabs, CIVI, 1999.09.27, *prof.dr.ir. J.C. Walraven*
- 3375 Reinder Hindrik Vegter**, Diffusion bonding of zirconia, MATE, 1999.09.27, *prof.dr. G. den Ouden*
- 3376 Marc Antonius Theodorus Bisschops**, Centrifugal adsorption technology, CHEM, 1999.09.28, *prof.dr.ir. L.A.M. van der Wielen*
- 3377 -- Fakhri**, Hybrid distillation/vapour permeation systems for solvent dehydration, MECH, 1999.09.28, *prof.dr.ir. J. de Groot*
- 3378 Leo van Breda**, Anticipating behaviour in supervisory vehicle control, MECH, 1999.09.28, *prof.dr.ir. H.G. Stassen, prof.dr.ir. H. Schuffel*
- 3379 Jacob Groeneweg**, Wave-current interactions in a generalized Lagrangian mean formulation, CIVI, 1999.10.01, *prof.dr.ir. J.A. Battjes*
- 3380 Peter Michael Bruce van Roosmalen**, Restoration of archived film and video, ELEC, 1999.10.01, *prof.dr.ir. J. Biemond, prof.dr.ir. R.L. Lagendijk*
- 3381 Robbert Leonardus Verweij**, Parallel computing for furnace simulations using domain decomposition, PHYS, 1999.10.01, *prof.dr. Dipl.-Ing. K. Hanjalic*
- 3382 Tako Pieter Rinze de Jong**, Density separation of non-ferrous metals by means of jigging and fluidisation, GEOS, 1999.10.04, *prof.ir. W.L. Dalmijn*
- 3383 Marten Wim Gribnau**, Two-handed interaction in computer supported 3D conceptual modeling, IDEE, 1999.10.04, *prof. J.M. Hennessey*
- 3384 Michiel Andreas Hacking**, Lipase catalyzed acylation of (hetero-substituted) nitrogen nucleophiles, CHEM, 1999.10.04, *prof.dr. R.A. Sheldon*
- 3385 Peter Paul de Wolf**, Estimating the extreme value index. Tales of tails, MATH, 1999.10.05, *prof.dr. P. Groeneboom*
- 3386 Martin Hoekstra**, Numerical simulation of ship stern flows with a space-marching Navier-Stokes method, MATH, 1999.10.07, cum laude, *prof.dr.ir. P. Wesseling*
- 3387 Johan Christiaan Winterwerp**, On the dynamics of high-concentrated mud suspensions, CIVI, 1999.10.07, cum laude, *prof.dr.ir. J.A. Battjes*

3388 Willem Frederik Adrianus Besling, In-situ Raman spectroscopy and laser-induced fluorescence of high vibrationally-excited gas mixtures during laser-induced chemical vapor deposition of nanostructured materials, CHEM, 1999.10.07, *prof.dr. J. Schoonman*

3389 Made Mahardika, On the analysis of riveted repair patches, AERO, 1999.10.11, *prof.dr. A. Rothwell*

3390 Borut Stavrov, Efficient broadband performance analysis and design of ATM networks, ELEC, 1999.10.11, *prof.dr. F.C. Schoute*

3391 Patricia Geralde Jolanda Twaalhoven, The success of policy analysis studies: an actor perspective, ADMI, 1999.10.12, *prof.dr. ir. W.A.H. Thissen*

3392 Leon David Aronson, A theory of routing in parallel computers. From concept to analysis, INFO, 1999.10.12, *prof.dr. ir. H.J. Sips*

3393 Michiel Johannes Gerardus Jak, Dynamic compaction of Li-ion battery components and batteries, CHEM, 1999.10.13, *prof.dr. J. Schoonman*

3394 Eckhard Floter, Hyperbaric reservoir fluids phase behaviour of model systems, CHEM, 1999.10.18, *prof.dr. ir. J. de Swaan Arons*

3395 Tjakko Gerard Zijlema, The antisolvent crystallisation of sodium chloride, CHEM, 1999.10.19, *mw.prof.dr. ir. G.M. van Rosmalen, prof.dr. G.J. Witkamp*

3396 Maria del Mar Aznar Fernandez-Montesinos, Modelling expertise from the flight domain to enhance safety, INFO, 1999.10.25, *prof.dr. H. Koppelaar*

3397 Florentius Maria van Kats, Aspects of upscaling in multiphase flow problems, MATH, 1999.10.25, *prof.dr. ir. C.J. van Duijn, prof. ir. C.P.J.W. van Kruijsdijk*

3398 Frank van der Ham, Eutectic freeze crystallization, CHEM, 1999.10.25, *prof.dr. G.J. Witkamp*

3399 Enrico Colzi, Digital signal processing techniques for personal and broadcasting satellite communication systems, ELEC, 1999.10.25, *prof.dr. ir. L.P. Ligthart, prof.dr. R. Prasad*

3400 Riccardo de Gaudenzi, Code division multiple access for satellite personal communication systems, ELEC, 1999.10.26, *prof.dr. ir. L.P. Ligthart, prof.dr. R. Prasad*

3401 Marielle Bruggeling, Interorganizational coordination in container transport. A chain management design, ADMI, 1999.10.26, *prof.dr. H.G. Sol*

3402 Jan Dirk Kamminga, Origin and measurement of stresses in thin layers, MATE, 1999.11.01, *prof.dr. ir. E.J. Mittemeijer*

3403 P.J.M.M. Krumm, Corporate real estate management in multinational corporations. A comparative analysis of Dutch corporations, ADMI, 1999.11.01, *prof. ir. H. de Jonge*

3404 Rabson James Sishe Mgaya, Adoption and diffusion of group support systems in Tanzania, INFO, 1999.11.02, *prof.dr. H.G. Sol*

3405 Simon Cornelis van der Linde, Application of positron emission profiling in catalysis, CHEM, 1999.11.02, *prof.dr. J.A. Moulijn, prof.dr. F. Kapteijn*

3406 Dionysius Christoffel Kooijman, Machine en theater. Ontwerpprojecten van winkelgebouwen, ADMI, 1999.11.04, *prof.dr.ir. H. Priemus, prof.ir. H. de Jonge, prof.dr.ir. G.A.C. Zeijl*

3407 Diede Marika Hoedemaker, Driving with intelligent vehicles. Driving behaviour with adaptive cruise control and the acceptance by individual drivers, HASS, 1999.11.04, *prof.dr. J.H.T.H. Andriessen*

3408 Olindo Caso, The city, the elderly and telematics. Design aspects of telematic applications in a residential neighbourhood, ADMI, 1999.11.05, *prof.dr. P. Drewe*

3409 Joanne Helene Josephine Kruijsen, Photovoltaic technology diffusion contact and interact, HASS, 1999.11.08, *mv.prof.dr.ir. M.P.C. Weijnen, prof.dr.ir. J.C. Brezet*

3410 Hank Robert Reinhoudt, The development of novel catalysts for deep hydrodesulfurisation of diesel fuel, CHEM, 1999.11.09, *prof.dr. J.A. Moulijn, prof.dr.ir. S.T. Sie*

3411 Mark Jeroen Tummers, Investigation of a turbulent wake in an adverse pressure gradient using laser Doppler anemometry, AERO, 1999.11.09, *prof.dr.ir. J.L. van Ingen*

3412 Luigi Arsenio D'Arcio, Selected aspects of wide-field stellar interferometry, PHYS, 1999.11.15, *prof.dr.ir. J.J.M. Braat, prof.dr.ir. H.J. Frankena*

3413 Petrus Lodevicus Antonius Overbeeke, Influence of process variables on the enantioselectivity of lipase-catalyzed kinetic resolutions in organic solvents, LIFE, 1999.11.15, *prof.dr.ir. J.J. Heijnen*

3414 Martijn Stroeve, Discrete numerical modelling of composite materials, CIVI, 1999.11.15, *prof.dr.ir. R. de Borst, prof.dr.ir. Ch.F. Hendriks*

3415 Marietta Ernestine Angela Haffner, Kosten en uitgaven van eigenaarsbewoners. Een fiscaal-economische vergelijking tussen West-Europese landen, HASS, 1999.11.16, *prof.dr.ir. H. Priemus*

3416 Femke Cathelijne Vossepoel, Sea-level data assimilation for estimating variability in the tropical pacific, AERO, 1999.11.16, *prof.ir. K.F. Wakker, prof.dr. W.P.M. de Ruijter*

3417 Wangzhao Zhu, Advanced inductively coupled plasma-mass spectrometry. Analysis of rare earth elements: environmental applications, MECH, 1999.11.22, *prof.dr.ir. G.J.F.R. Alaerts, prof.dr. G.J. Witkamp*

3418 Timotheus Henricus Joannes Bunnik, Seakeeping, calculations for ships, taking into account the non-linear steady waves, MATH, 1999.11.22, *prof.dr.ir. A.J. Hermans*

3419 Bartholomeus Leonardus Kaptein, Towards in vivo parameter estimation for a musculoskeletal model of the human shoulder, MECH, 1999.11.22, *prof.dr.ir. H.G. Stassen, prof.dr. F.C.T. van der Helm*

3420 Bart Willem Faber, Fungal cytochromes P450 involved in hydroxylations of aromatic compounds, LIFE, 1999.11.23, *prof.dr.ir. J.A. Duine*

3421 Josephus Petrus Arnoldus Maria Driessen, Low-temperature chemical vapour deposition of titanium nitride, CHEM, 1999.11.23, *prof.dr. J. Schoonman*

3422 Tero Ilmari Ojanpera, Multirate multi-user detectors for wideband code division multiple access, ELEC, 1999.11.23, *prof.dr. J.C. Arnbak, prof.dr. R. Prasad*

3423 Theodorus Vergunst, Carbon coated monolithic catalysts. Preparation aspects and testing in the three-phase hydrogenation of cinnamaldehyde, CHEM, 1999.11.23, *prof.dr. J.A. Moulijn, prof.dr. F. Kapteijn*

3424 Sytse Jelle Jelles, Diesel exhaust aftertreatment. Development of catalyst systems for diesel particulate oxidation, CHEM, 1999.11.25, *prof.dr. J.A. Moulijn*

3425 Willem van der Ham, Heersen en beheersen. Rijkswaterstaat in de twintigste eeuw, HASS, 1999.11.25, *prof.dr.ir. H.W. Lintsen, prof.dr. P.W. Klein*

3426 Cristian Picioreanu, Multidimensional modeling of biofilm structure, LIFE, 1999.11.29, *prof.dr.ir. J.J. Heijnen, prof.dr.ir. M.C.M. van Loosdrecht*

3427 Dirkjan Bernhard van Dam, The influence of inelastic rock behaviour on hydraulic fracture geometry, GEOS, 1999.11.29, *prof.dr. P.K. Currie*

3428 Cornelis Martin Rozendaal, Impact of coal quality on NO_x emissions from power plants, ENER, 1999.11.30, *prof.dr.ing. K.R.G. Hein*

3429 Barry Hendrik de Roode, Computer supported design of production machines, MECH, 1999.11.30, *prof.ir. H.A. Crone, prof.dr.ir. K. van der Werff*

3430 Max Mulder, Cybernetics of tunnel-in-the-sky-displays, AERO, 1999.11.30, cum laude, *prof.dr.ir. J.A. Mulder, prof.dr.ir. H.G. Stassen*

3431 Daniel Tijink, Wetenschapsverkenningen als vorm van participatieve beleidsanalyse. Een empirisch onderzoek naar succesbepalende factoren bij OCV verkenningen, HASS, 1999.12.02, *prof.dr.ir. W.A.H. Thissen, prof.dr.ir. R.E.C.M. van der Heijden*

3432 Bastiaan Matthias Mertens, Electron microscopy with standing wave illumination, PHYS, 1999.12.02, *prof.dr.ir. P. Kruit*

3433 Herbert Jan Koelman, Computer support for design, engineering and prototyping of the shape of ship hulls, MARI, 1999.12.02, *prof.ir. A. Aalbers, prof.dr.ir. I. Horvath*

3434 Buu Long Nguyen, Dielectric measurements saturation determination, GEOS, 1999.12.06, *prof.ir. C.P.J. W. van Kruisdijk*

3435 Cezar Bruma, Systems-on-a-chip architecting, ELEC, 1999.12.06, *prof.dr.ir. R.H.J.M. Otten*

3436 Anteneh Alemu Abbo, Highly-integrated navigation receiver architecture (A HW/SW co-design approach), ELEC, 1999.12.06, *prof.dr.ir. R.H.J.M. Otten*

3437 Alan Hanjalic, Visual-content analysis for multimedia retrieval systems, ELEC, 1999.12.07, *prof.dr.ir. J. Biemond, prof.dr.ir. R.L. Lagendijk*

3438 Ferdinand Arnold Bernardus Lohman, The effectiveness of management information, ADMI, 1999.12.07, *prof.dr. H.G. Sol*

3439 Edwin Antonius Hakkenes, Multimedia hardware accelerators, ELEC, 1999.12.07, *prof.dr. S. Vassiliadis*

- 3440 Michiel Gerrit Doeke Fokke**, Abrasive blasting of metal surfaces. A scientific approach, PHYS, 1999.12.10, *prof.dr.ir. H.E.A. van den Akker*
- 3441 Marco Johannes Gerardus Linders**, Prediction of breakthrough curves of activated carbon based sorption systems from elementary steps to process design, CHEM, 1999.12.10, *prof.dr. J.A. Moulijn, prof.dr. F. Kapteijn*
- 3442 Marleen Wilhelmina Heemels**, Computer simulations of colloidal suspensions using an improved lattice-Boltzman scheme, PHYS, 1999.12.13, *prof.dr. S.W. de Leeuw*
- 3443 Harke Herman Melcior Cleveringa**, Discrete dislocation plasticity, MECH, 1999.12.13, *prof.dr.ir. E. van der Giessen*
- 3444 Harald Oosterhof**, Antisolvent crystallisation of sodium carbonate, CHEM, 1999.12.13, *prof.dr. G.J. Witkamp, mu.prof.dr.ir. G.M. van Rosmalen*
- 3445 Peter Dirk Jilles Hoppesteyn**, Application of low calorific value gaseous fuels in gas turbine combustors, MECH, 1999.12.14, *prof.dr.ing. K.R.G. Hein*
- 3446 Jan Willem Gijsbert van de Kuilen**, Duration of load effects in timber joints, CIVI, 1999.12.14, *prof.Dr.-Ing. H.J. Blass, prof.ir. A.C.W.M. Vrouwenvelder*
- 3447 Marius Leonardus Robertus van der Linden**, Timber-concrete composite floor systems, CIVI, 1999.12.14, *prof.dr.ir. J. Wardenier, prof.ir. A.C.W.M. Vrouwenvelder, prof.Dr.-Ing. H.J. Blass*
- 3448 Hong Yang**, Imaging spectrometry for hydrocarbon microseepage, GEOS, 1999.12.15, *prof.dr. S.B. Kroonenberg*
- 3449 Huang Hong**, Anode materials for lithium-ion batteries, MATE, 1999.12.16, *prof.dr. J. Schoonman, prof. L. Chen*
- 3450 Danny Lathouwers**, Modelling and simulation of turbulent bubbly flow, PHYS, 1999.12.16, *prof.dr.ir. H.E.A. van den Akker*
- 3451 Marcus Cornelis Jacobus Lazeroms**, Force reflection for telemanipulation applied to minimally invasive surgery, ELEC, 1999.12.16, *prof.ir. G. Hondend*
- 3452 Helga Dorothee Hohn**, Playing, leadership and team development in innovative teams, ADMI, 1999.12.17, *prof.dr.ir. J.A. Buijs, prof.dr. J.B. Rijsman*
- 3453 Petrus Hermanus Antonius Johannes Maria van Gelder**, Statistical methods for the risk-based design of civil structures, CIVI, 2000.01.10, *prof.dr.ir. J.K. Vrijling*
- 3454 Colin Mohammed Amin Ashruf**, Galvanic etching of silicon for fabrication of micromechanical structures, ELEC, 2000.01.10, *prof.dr. P.J. French, prof.dr. J.J. Kelly*
- 3455 Erwin Ben Bellers**, De-interlacing. A contribution to the interlaced versus progressive video debate, ELEC, 2000.01.10, *prof.dr.ir. J. Biemond*
- 3456 Liesbeth Cornelia Venema**, Electronic structure of carbon nanotubes, PHYS, 2000.01.11, *prof.dr.ir. J.E. Mooij, prof.dr. C. Dekker*
- 3457 Ernst Gerard Pieter Bovenkamp**, Fuzzy temporal reasoning, ELEC, 2000.01.11, *prof.dr.ir. E. Backer*

3458 Aweke Negassh Lemma, ESPRIT based joint angle-frequency estimation. Algorithms and simulations, ELEC, 2000.01.11, *prof.dr.ir. P.M. Dewilde, prof.dr.ir. E.F.A. Deprettere*

3459 Guido Gilbert Brouwn, Postural control of the human arm, MECH, 2000.01.17, *prof.dr.ir. H.G. Stassen, prof.dr. F.C.T. van der Helm*

3460 Roland Gerardus Adriaan de Waal, Steel fibre reinforced tunnel segments for the application in shield driven tunnel linings, CIVI, 2000.01.17, *prof.dr.ir. J.C. Walraven*

3461 Margaretha Bonny Spoelstra, Filiform corrosion of anodised aluminium alloys, MATE, 2000.01.17, *prof.dr. J.H.W. de Wit*

3462 Wei He, Dynamic simulations of molten-carbonate fuel-cell systems, ENER, 2000.01.18, *prof.ir. R.W.J. Koussfeld, prof.ir. O.H. Bosgra*

3463 Martine Velds, Assessment of lighting quality in office rooms with daylighting systems, ADMI, 2000.01.18, *prof.ir. J. Bratruwer*

3464 Ivo Léon Diane Marie Merks, Binaural application of microphone arrays for improved speech intelligibility in a noisy environment, PHYS, 2000.01.18, *prof.dr.ir. A.J. Berkhout*

3465 Jan Pieter Maurice, Short wavelength and dynamic tyre behaviour under lateral and combined slip conditions, MECH, 2000.01.24, *prof.dr.ir. H.B. Pacejka*

3466 Melvin Asin, The behaviour of reinforced concrete continuous deep beams, CIVI, 2000.01.24, *prof.dr.ir. J.C. Walraven*

3467 Evert Eugene Bende, Plutonium burning in a pebble-bed type high temperature nuclear reactor, PHYS, 2000.01.24, cum laude, *prof.dr.ir. H. van Dam*

3468 Guido Josias Klap, Confined chains in molecular sieves, CHEM, 2000.01.25, *prof.dr.ir. J. van Turnhout, prof.dr.ir. H. van Bekkum*

3469 Bas Adriaan van Haarlem, The dynamics of particles and droplets in atmospheric turbulence, MECH, 2000.01.25, *prof.dr.ir. F.T.M. Nieuwstadt*

3470 Vincent Albert Willem Julia Marchau, Technology assesment of automated vehicle guidance. Prospects for automated driving implementation, HASS, 2000.01.31, *prof.dr.ir. R.E.C.M. van der Heijden*

3471 Marcel René van Vliet, Size effect in tensile fracture of concrete and rock, CIVI, 2000.01.31, *prof.dr.ir. J.G.M. van Mier*

3472 Juriaan Jan van Meel, The European Office. Office design and national context, ADMI, 2000.02.01, *prof.ir. H. de Jonge*

3473 Gerrit Cornelis Langelaar, Real-time watermarking techniques for compressed video data, ELEC, 2000.02.01, *prof.dr.ir. J. Biemond, prof.dr.ir. R.L. Lagendijk*

3474 Emilia Leoni Christine de Wilde de Ligny, Technology mapping for technology management, ADMI, 2000.02.07, *prof.dr.ir. R.A.F. Smook, prof.dr.ir. E.J. de Bruijn*

3475 Hendrik Jacob Visscher, Bouwtoezicht en kwaliteit zorg. Een verkenning van alternatieven voor de technische controles door het gemeentelijk bouwtoezicht, ADMI, 2000.02.08, *prof.dr.ir. H. Priemus*

3476 Jacoba Gerardina Theodora van der Hoeven, Observations in the turbulent boundary-layer. High resolution DPIV measurements over smooth and riblet surfaces, MECH, 2000.02.14, *prof.dr.ir. F.T.M. Nieuwstadt*

3477 Frenk Dimitri van den Berg, Gas-filled micro-patterned radiation detectors, PHYS, 2000.02.22, *prof.dr.ir. C.W.E. van Eijk*

3478 Freddie van de Velde, The application of peroxidases in the synthesis of fine chemicals, CHEM, 2000.02.22, *prof.dr. R.A. Sheldon*

3479 Mahmoud Ibrahim Mohamed Bakr, A stochastic inverse-management approach to groundwater quality problems, CIVI, 2000.03.06, *prof.dr.ir. C. van den Akker*

3480 Gideon Pieter Adriaan Greeff van Zijl, Computational modelling of masonry creep and shrinkage, CIVI, 2000.03.06, *prof.dr.ir. R. de Borst, prof.dr.ir. J.G. Rots*

3481 Hindrik Willem Mook, The fringe field monochromator, PHYS, 2000.03.07, *prof.dr.ir. P. Kruit*

3482 Paulus Gijsbertus de Heij, On the mechanism of high temperature plastic deformation in metallic glasses, MATE, 2000.03.13, *prof.dr.ir. A. van den Beukel*

3483 Peter Johan Albert Gijsbers, Decision support for the management of shared water resources. Data management as a cornerstone for joint DSS development, CIVI, 2000.03.13, *prof.ir. E. van Beek*

3484 Antoon Peter Gerardus van Heel, Simulation of viscoelastic fluids from microscopic models to macroscopic complex flows, MECH, 2000.03.20, *prof.dr.ir. B.H.A.A. van den Brule*

3485 Anton van Beek, Dielectric properties of young concrete. Non-destructive dielectric sensor for monitoring the strength development of young concrete, CIVI, 2000.03.21, *prof.dr.ir. K. van Breugel*

3486 Johannes Maria Theodorus Antonius Adriaens, Modeling and control of a piezo-actuated positioning mechanism, MATH, 2000.03.27, *prof.dr. G.J. Olsder, prof.dr.ir. F. Tuinstra*

3487 Marcel Rietdijk, Gemeentelijke vastgoedinformatie-voorziening en regelgeving, GEOD, 2000.03.27, *prof.mr. J. de Jong*

3488 Michiel de Bakker, The PSD chip. High speed acquisition of range images, PHYS, 2000.03.27, *prof.dr. I.T. Young*

3489 Mario Robert de Rooij, Syneresis in cement paste systems, CIVI, 2000.03.28, *prof.dr. J.M.J.M. Bijen, prof.dr. G. Frens*

3490 Johan Vos, Characterization of laminated construction materials based on ultrasonic reflection measurements, PHYS, 2000.03.28, *prof.dr.ir. A.J. Berkhout, prof.dr.ir. C.P.A. Wapenaar*

3491 Johannes Schalk, A study of the metabolic pathway of anaerobic ammonium oxidation, LIFE, 2000.04.03, *prof.dr. J.G. Kuenen*

3492 Franciscus Henricus Petrus Spaan, Error resilient compression of digital video data, ELEC, 2000.04.03, *prof.dr.ir. J. Biemond, prof.dr.ir. R.L. Lagendijk*

3493 Sandra Otte, Nitrous oxide (N_2O) production during conversion of inorganic nitrogen compounds in pure and mixed cultures, LIFE, 2000.04.03, *prof.dr. J.G. Kuenen*

3494 Peter Savov Kazakov, Application of polynomials to CRC and spherical codes, MATH, 2000.04.04, *prof.dr. J. Simonis*, *prof.dr. S.M. Dodounekov*

3495 Marc Strous, Microbiology of anaerobic ammonium oxidation, LIFE, 2000.04.04, cum laude, *prof.dr. J.G. Kuenen*

3496 Joost Cornelis Moulijn, Added resistance due to waves of surface effect ships, MARI, 2000.04.10, *prof.dr.ir. J.A. Pinkster*

3497 Jianjun Zheng, Mesostructure of concrete. Stereological analysis and some mechanical implications, CIVI, 2000.04.11, *prof.dr.ir. R. de Borst*

3498 Martinus Cornelis Maria Bakker, Non-destructive inspection techniques based on elastodynamics. Development and validation, CIVI, 2000.04.11, cum laude, *prof.ir. A.C.W.M. Vrouwenfelder*

3499 Anthonius Bakker, High-accuracy CMOS. Smart temperature sensor, ELEC, 2000.04.17, *prof.dr.ir. J.H. Huijsing*

3500 Jason Edward Frank, Efficient algorithms for the numerical solution of differential equations, MATH, 2000.04.17, *prof.dr.ir. P. Wesseling*, *prof.dr. P.J. van der Houwen*

3501 Gilles Alexander van Nederveen, Object trees. Improving electronic communication between participants of different disciplines in large-scale construction projects, CIVI, 2000.04.17, *prof.ir. F.P. Tolman*

3502 Carolus Johannes Reinecke, Semilinear elliptic systems of FitzHugh-Nagumo type, MATH, 2000.05.01, *prof.dr. P.P.J.E. Clément*

3503 Ayse Hacısalihoglu, Bacterial quinoprotein amine oxidoreductases, LIFE, 2000.05.01, *prof.dr.ir. J.A. Duine*

3504 Frederik Jan Lingen, Design of an object oriented finite element package for parallel computers, CIVI, 2000.05.02, *prof.dr.ir. R. de Borst*

3505 Mehdi Saeid Kiasat, Curing shrinkage and residual stresses in viscoelastic thermosetting resins and composites, MECH, 2000.05.02, *prof.dr.ir. R. Marissen*

3506 Robert Jan de Korte, Controlling the chaotic hydrodynamics of fluidized beds, CHEM, 2000.05.02, *prof.ir. C.M. van den Bleek*, *prof.dr.ir. J.C. Schouten*

3507 Marinus Petrus Antonius Maria van de Looij, Rationeel plannen en begroten van onderhoud in het waterbeheer, CIVI, 2000.05.11, *prof.ir. R. Brouwer*, *prof.dr.ir. P. van der Veer*

3508 Hendrik Johan Brinkman, Reactive processing of aluminium matrix composites, MATE, 2000.05.11, *prof.ir. L. Katgerman*

3509 Renson Gerardus Meijkamp, Changing consumer behaviour through eco-efficient services. An empirical study on car sharing in the Netherlands, IDEE, 2000.05.11, *prof.dr.ir. J.C. Brezet*, *prof.dr. J. Cramer*

3510 Michel Jaques de Neef, Modelling capillary effects in heterogeneous porous media, MATH, 2000.05.15, *prof.dr.ir. C.J. van Duijn*

3511 Theodoor Boersema, Visual conspicuity in complex, naturalistic images, HASS, 2000.05.15, *prof.dr. M.N. Verbaten*, *prof. P.P. Mijksenaar*

3512 Harm Askes, Advanced spatial discretisation strategies for localised failure mesh adaptivity and meshless methods, CIVI, 2000.05.15, *prof.dr.ir. R. de Borst*

3513 Marjolein Spaans, Realisatie van stedelijke revitaliseringsprojecten. Een internationale vergelijking, ARCH, 2000.05.16, *prof.dr.ir. H. Priemus, prof.dr. A.M.J. Kreukels*

3514 Frank Emile Wubbolts, Supercritical crystallisation. Volatile components as (anti-)solvents, CHEM, 2000.05.16, *mu.prof.dr.ir. G.M. van Rosmalen*

3515 Teunis Cornelis Bor, Strain fields in crystalline solids. Prediction and measurement of X-ray diffraction patterns and electron diffraction contrast images, MATE, 2000.05.16, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. E. van der Giessen*

3516 Jan Gerhard Norström, Value of information based design control software, MATH, 2000.05.22, *prof.dr. R.M. Cooke*

3517 Klaas Jan Bakker, Soil retaining structures. Development of models for structural analysis, CIVI, 2000.05.22, *prof.dr.ir. A. Verruijt, prof.dr.ir. J.K. Vrijling*

3518 Arief Edsel Dahoe, Dust explosions: a study of flame propagation, CHEM, 2000.05.22, *prof. M.Sc. B. Scarlett*

3519 Johan Herman ter Horst, Molecular modelling and crystallization morphology, solvent effect and adsorption, CHEM, 2000.05.23, *mu.prof.dr.ir. G.M. van Rosmalen*

3520 Willem Robert Klaas Schoevaart, Applications of aldolases in organic synthesis, CHEM, 2000.05.23, *prof.dr. R.A. Sheldon*

3521 Alexander Valerievich Fedorov, Evolution of point defect clusters during ion-irradiation and thermal annealing, PHYS, 2000.05.23, *prof.dr. A. van Veen, prof.dr.ir. H. van Dam*

3522 David John Smith, Developments in the use of failure rate data and reliability prediction methods for hardware, MECH, 2000.05.29, *prof.ir. K. Smit*

3523 Ludmila Velterop, Microstructure and stresses in thin alloy layers before and after precipitation, MATE, 2000.05.29, *prof.dr.ir. E.J. Mittemeijer*

3524 Adriaan Jacobus Quist, Application of mathematical optimization techniques to nuclear reactor reload pattern design, MATH, 2000.05.29, *prof.dr.ir. C. Roos, prof.dr. F.A. Lootsma*

3525 Gerdineke Judith Boertjens, Weakly nonlinear beam equations: an asymptotic analysis, MATH, 2000.05.30, *prof.dr.ir. J.W. Reyn*

3526 Anne-Maria Zeeman, Pyruvate metabolism in the yeast, *Kluiveromyces lactis*, LIFE, 2000.05.30, *prof.dr. J.G. Kuenen, prof.dr.ir. P.J.J. Hooykaas*

3527 Asteriani Dewanti, Enzymology of quinoprotein glucose dehydrogenases from *acinetobacter calcoaceticus*, LIFE, 2000.05.30, *prof.dr.ir. J.A. Duine*

3528 Roel van de Krol, Lithium intercalation in anatase TiO_2 , CHEM, 2000.06.02, *prof.dr. J. Schoonman*

3529 Angelique Isabelle Maria Voorbij, Isometric and isoinertial force exertion in product handling, IDEE, 2000.06.02, *prof.dr.ir. C.J. Snijders, prof.dr. Eur Ing J.M. Dirken*

3530 Jeroen Louwers, Combustion and decomposition of hydrazinium nitroformate (HNF) and HNF propellants, PHYS, 2000.06.02, cum laude, *prof.dr. D.J.E.M. Roekaerts*

3531 Hendrikus Theodorus Smakman, Functional integration of slip control with active suspension for improved lateral vehicle dynamics, MECH. 2000.06.13, *prof.ir. O.H. Bosgra, prof.dr.ir. H.B. Paceyka*

3532 Lianne Knol, Hydraulic wash columns. Solid-liquid separation in melt crystallization, CHEM. 2000.06.13, *mw.prof.dr.ir. G.M. van Rosmalen*

3533 Anick Marguerite van de Craats, Charge transport in self-assembling discotic liquid crystalline materials, CHEM. 2000.06.13, *prof.dr.ir. A.H.M. Verkooijen*

3534 Elisabeth Henrica Maria Moors, Metal making in motion. Technology choices for sustainable metals production, MATE. 2000.06.14, *prof.dr. Ph.J. Vergragt*

3535 Paul Henry Jansen, Characterisation of oil-water mixtures produced in high-water oil wells, GEOS. 2000.06.14, *prof.dr. P.K. Currie*

3536 Maarten Pieter Moolenaar, Kennis aan herverkavelen. Codificatie en modellering van herverkavelingskennis, GEOD. 2000.06.14, *prof.ir. W.H. de Vos*

3537 Jose Luis Vicente Llerna Moran, An implementation model for camm systems. Design, modelling and configuration, MECH. 2000.06.16, *prof.ir. K. Smit*

3538 Johannes Bouman, Quality assesment of satellite-based global gravity field models, GEOD. 2000.06.19, *prof.Dr.-Ing.Habil. R.A.P. Klees*

3539 Marinus Johannes van der Zande, Droplet break-up in turbulent oil-in-water flow through a restriction, GEOS. 2000.06.19, *prof.dr. P.K. Currie*

3540 Ernst Martinus Schetselaar, Integrated analyses of granite-gneiss terrain from field and multisource remotely sensed data. A case study from the Canadian shield, GEOS. 2000.06.19, *prof.dr. S.B. Kroonenberg*

3541 Stephanie Lilian Ellenberger, Influence of defocus on measurements in microscope images, PHYS. 2000.06.20, *prof.dr. I.T. Young, prof.dr.ir. L.J. van Vliet*

3542 Paul Hendrik Waarts, Structural reliability using finite element methods, CIVI. 2000.06.20, *prof.ir. A.C. W.M. Vrouwenvelder*

3543 Roy Mayer, Wall-shear stress measurements with quantitative infrared thermography, AERO. 2000.06.22, *prof.dr.ir. J.L. van Ingen*

3544 Maarten Lambertus Henricus ter Heerdt, Low-temperature chemical vapour deposition of copper on plastics, CHEM. 2000.06.22, *prof.dr. J. Schoonman*

3545 Adriaan Marinus Hoogstrate, Towards high-definition abrasive waterjet cutting, MECH. 2000.06.26, *prof.dr.ir. H.J.J. Kals*

3546 Annemiek Willemine Heinen, Modification and application of carbon supported noble metal catalysts, CHEM. 2000.06.26, *prof.dr.ir. H. van Bekkum*

3547 Gerardus Cornelius Avontuur, Reliability analysis in mechanical engineering design, MECH. 2000.06.27, *prof.dr.ir. K. van der Werff*

3548 Michael Johannes Antonius Maria van Putten, Flow measurements with thermal silicon sensors, PHYS. 2000.06.27, *prof.dr.ir. H.E.A. van den Akker*

3549 Subiono, On classes of min-max-plus systems and their applications, MATH, 2000.06.29, *prof.dr. G.J. Olsder*

3550 Wilhelmus Josephus Adrianus Denissen, Design of an HPF compiler. A compilation framework for a data-parallel language, INFO, 2000.09.05, *prof.dr.ir. H.J. Sips*

3551 Caroline Clementine Maria Hummels, Gestural design tools: prototypes, experiments and scenarios, IDEE, 2000.09.05, cum laude, *mv.prof.dr. G.J.F. Smets*

3552 Marco Jacobs, Multinodal urban structures. A comparative analysis and strategies for design, ARCH, 2000.09.05, *prof.dr. P. Drewe*

3553 Frederik Augustinus Maria Hobma, Rijkswegen en ruimtelijke ordening. Planologische inpassing van rijkswegtracés door Nederlandse gemeenten, HASS, 2000.09.18, *prof.dr. J. Wessels*

3554 Mario Alvarez Grima, Neuro-fuzzy modeling in engineering geology, GEOS, 2000.09.18, *prof.dr. A.K. Turner, prof.dr.ir. P. van der Veer*

3555 Berend Gerardus Michiel van Wachen, Derivation, implementation, and validation of computer simulation models for gas-solid fluidized beds, CHEM, 2000.09.18, *prof.ir. C.M. van den Bleek, prof.dr. R. Krishna, prof.dr.ir. J.C. Schouten*

3556 Jorgen van de Langkruis, The effect of thermal treatments on the extrusion behaviour of AlMgSi alloys, MATE, 2000.09.19, *prof.dr.ir. S. van der Zwaag*

3557 Maria Aartje den Hollander, Catalytic cracking in a microriser. The different time scales of cracking and coke deposition, CHEM, 2000.09.19, *prof.dr. J.A. Moulijn*

3558 Liesbet Antoinet van Dijk, Activeren in colleges. Mogelijkheden en effecten onderzocht, HASS, 2000.09.19, *prof.dr. W.M.G. Jochems, prof.dr. W. Veen*

3559 Klemens Heinrich, Fuzzy assessment of contamination potentials, GEOS, 2000.09.21, *prof.dr.ing. D.D. Genske*

3560 Elias Alphonsus Jozef Franciscus Peters, Polymers in flow. Modelling and simulation, MECH, 2000.09.21, cum laude, *prof.dr.ir. B.H.A.A. van den Brule*

3561 Wilhelmus Petrus Matheus van Hoek, Fermentative capacity in aerobic cultures of bakers' yeast, LIFE, 2000.09.21, *prof.dr. J.G. Kuenen, prof.dr. J.T. Pronk*

3562 Ronald van Oers, Dutch town planning overseas during VOC and WIC rule (1600-1800), ARCH, 2000.09.22, *prof.dr.ir. F.W. van Voorden, prof.ir. J. Heeling*

3563 Katinka Mariska Mussert, A fracture mechanical study of precipitation hardenable aluminium-based metal matrix composites, MATE, 2000.09.22, *prof.dr.ir. A. Bakker, prof.dr.ir. S. van der Zwaag*

3564 Wilhelmina Middel, Additives in GTA welding, MATE, 2000.09.22, *prof.dr. G. den Ouden*

3565 Yvonne van Leeuwen, Moving interfaces in low-carbon steel. A phase transformation model, MATE, 2000.09.25, *prof.dr.ir. S. van der Zwaag*

3566 Michiel Johan Verhoef, Micro- and mesoporous materials as catalysts in organic conversions, CHEM, 2000.09.25, *prof.dr.ir. H. van Bekkum*

3567 Serban Bruma, Into deep submicron: a simulation perspective, ELEC, 2000.09.25, *prof.dr.ir. R.H.J.M. Otten*

3568 Florus Koorneef, Organised learning from small-scale incidents, HASS, 2000.09.26, *prof.dr. A.R. Hale, prof.dr. mr. B.A.J.M. de Mol*

3569 Ignatius Jozef Maria Besselink, Shimmy of aircraft main landing gears, MECH, 2000.09.26, *prof.dr. H.B. Pacejka*

3570 Sugi Guritman, Restrictions on the weight distribution of linear codes, MATH, 2000.09.26, *prof.dr. J. Simonis, prof.dr. S.M. Dodounekou*

3571 Adriaan Jan de Jong, Characterization of coatings inside food and beverage cans, MATE, 2000.10.02, *prof.dr. J.H.W. de Wit*

3572 Antoon Bosch, Om de macht over het water. De nationale watersstaatsdienst tussen staat en samenleving 1798-1849, HASS, 2000.10.02, *prof.dr. H.W. Lintsen, prof.dr. W.J. van der Dussen*

3573 Agung Lukito, Bounds for the length of certain types of distance-preserving codes, MATH, 2000.10.02, *prof.dr. A.J. van Zanten, prof.dr. A.A. Evdokimov*

3574 Elisabeth Maria Beunder, Influence of shape on particle behaviour in recycling techniques, MATE, 2000.10.03, *prof. ir. W.L. Dalmijn*

3575 Dirk Laurens van Deursen, Lumbar disc mechanics in dynamic sitting, IDEE, 2000.10.03, *prof.dr. ir. C.J. Snijders, prof.dr. ir. J.J.M. Evers*

3576 Alexander Molenaar, A novel planar magnetic bearing and motor configuration applied in a positioning stage, MECH, 2000.10.03, *prof.dr. ir. H.F. van Beek*

3577 Gabor Szentivanyi, Open, reusable and distributed components for multimedia information management. Design, implementation and integration. Issues in an enterprise environment, INFO, 2000.10.09, *mu.prof.Dr.-Ing.Habil. W. Gerhardt*

3578 Aria Abubakar, Three-dimensional nonlinear inversion of electrical conductivity, ELEC, 2000.10.09, cum laude, *prof.dr. ir. P.M. van den Berg*

3579 Peter Andre Redert, Multi-viewpoint systems for 3-D visual communication, ELEC, 2000.10.09, *prof.dr. ir. J. Biemond*

3580 Jasper Hattink, Accumulation of technetium in duckweed, LIFE, 2000.10.10, *prof.dr. ir. J.J.M. de Goeij, prof.dr. W.H.O. Ernst*

3581 Jan Jakob Sonke, Variable acoustics by wave field synthesis, PHYS, 2000.10.10, *prof.dr. ir. A.J. Berkhout*

3582 Johanna Dimphena Maria van Hal, Beyond the demonstration project. The diffusion of environmental innovations in housing, ARCH, 2000.10.10, *prof. ir. C.A.J. Duijvestein, prof.dr. ir. J.C. Brezet*

3583 Johannes Josephus Wilhelmus Maria Rosink, Carrier transport in azomethine oligomers grown by multiple self-assembly, MATE, 2000.10.16, *prof.dr. ir. S. Radelaar*

3584 Daniele Merrie Corsi, Elucidation of structure and dynamics of paramagnetic coordination compounds. Relevance to biology and medicine, CHEM, 2000.10.23, *prof.dr. ir. H. van Bekkum, prof.dr. K.D. Karlin*

3585 Alain Geoffré Kooiman, Modelling steel fibre reinforced concrete for structural design, CIVI, 2000.10.30, *prof.dr. ir. J.C. Walraven*

3586 Ghada Youssef Hosny El Serafy, Data assimilation in particle models for groundwater contamination, MATH, 2000.10.31, *prof.dr.ir. A.W. Heemink*

3587 Kaj Morel, Consumers' reactions to ambiguous product information. The categorization of hybrid products, IDEE, 2000.10.31, *prof.dr. W.M. Oppedijk van Veen*

3588 Ewout Casper Verkerk, Dynamics of the pebble-bed nuclear reactor in the direct Brayton cycle, PHYS, 2000.11.06, *prof.dr.ir. H. van Dam*

3589 Antonio Javier Marti Canales, Time domain antenna measurements in compact ranges and small anechoic chambers. Practice and modelling, pattern error correction and antenna diagnostics, ELEC, 2000.11.06, cum laude, *prof.dr.ir. L.P. Ligthart*

3590 Mohamed Ibrahim Al-hamdi, Competition for scarce groundwater in the Sana'a Plain, Yemen. A study on the incentive systems for urban and agricultural water use, CIVI, 2000.11.07, cum laude, *prof.dr.ir. G.J.F.R. Alaerts, prof.dr. W.G. Wolters*

3591 Ljiljana Rodic, Reliability of landfill technology, CIVI, 2000.11.07, *prof.dr. A.R. Hale*

3592 Michel Albert Schonewille, Fourier reconstruction of irregularly sampled seismic data, GEOS, 2000.11.07, *prof.dr.ir. J.T. Fokkema*

3593 Adriaan Johannes Pieter de Lange, High voltage circuit breaker testing with a focus on three phases in one enclosure gas insulated type, ELEC, 2000.11.13, *prof.ir. L. van der Sluis*

3594 Victor Karel Christiaan Venema, Cloud measurements with radar, ELEC, 2000.11.13, *prof.dr.ir. L.P. Ligthart*

3595 Theodoor Wouter Fens, Petrophysical properties from small rock samples using image analysis techniques, PHYS, 2000.11.14, *prof.dr. I.T. Young, prof.ir. M. Peeters*

3596 Luca Canali, Novel scanning probes applied to the study of nanostructures, PHYS, 2000.11.14, *prof.dr.ir. J.E. Mooij, prof.dr.ir. L.P. Kouwenhoven*

3597 Johannes Gerrit Jan Beijer, Nonlinear viscoelastic behaviour of HDPE. Constitutive modelling and FEM implementation, IDEE, 2000.11.20, *prof.ir. J.L. Spoormaker*

3598 Stephan Jo Cecile Henri Theeuwes, Local probing of the giant and domain-wall magnetoresistance, PHYS, 2000.11.20, *prof.dr.ir. S. Radelaar*

3599 Barry Mos, Dynamics in classical and complex fluids studied by neutron scattering, PHYS, 2000.11.21, *prof.dr. G.J. Kearley, prof.dr.ir. A.H.M. Verkooijen*

3600 Hooshang Asadi Haroni, The Zarshuran gold deposit model applied in a mineral exploration GIS in Iran, GEOS, 2000.11.21, *prof.dr. M. Hale*

3601 Edwin Teunis van Donkelaar, Improvement of efficiency in system identification and model predictive control of industrial processes, MECH, 2000.11.21, *prof.ir. O.H. Bosgra, prof.dr.ir. P.M.J. van den Hof*

3602 Leendert Nicolaas van Rij, Ceramic methane sensor based on a catalytic principle, CHEM, 2000.11.27, *prof.dr. J. Schoonman*

3603 Maria Ruitenbergh, Numerical simulation of an oxy-acetylene torch reactor for diamond CVD, PHYS, 2000.11.27, *prof.dr.ir. H.E.A. van den Akker, prof.dr.ir. G.B. Marin*

3604 Jurian Edelenbos, Proces in vorm. Procesbegeleiding van interactieve beleidsvorming over lokale ruimtelijke projecten, ADMI, 2000.11.28, *prof.dr.mr. E.F. ten Heuvelhof*

3605 Michael Johannes Jacobus Litjens, Engineering of lipase-catalyzed conversions in organic solvents containing ammonium salts, LIFE, 2000.11.28, *prof.dr.ir. J.J. Heijnen*

3606 Henrico Witvliet, Unconditional Schauder decompositions and multiplier theorems, MATH, 2000.11.28, *prof.dr. P.P.J.E. Clément*

3607 Johannes Matheus Cornelis Mol, Filiform corrosion of aluminium alloys. The effect of microstructural variations in the substrate, MATE, 2000.12.01, *prof.dr.ir. S. van der Zwaag*, *prof.dr. J.H.W. de Wit*

3608 Holger Ulrich Reinhold Kattentidt, Recycling von Schüttgutströmen, MECH, 2000.12.04, *prof.ir. W.L. Dalmijn*

3609 Burghard Ilge, Scanning tunneling microscopy of cobalt on silicon surfaces. A study on formation and properties of metallic nanostructures, PHYS, 2000.12.04, *prof.dr.ir. J.E. Mooij*

3610 Romano Julma Oscar Maria Hoofman, Charge transport in polydiacetylenes, CHEM, 2000.12.04, *prof.dr. A. Hummel*

3611 Arjen Jacco Hoekstra, Gas flow field and collection efficiency of cyclone separators, PHYS, 2000.12.05, *prof.dr.ir. H.E.A. van den Akker*

3612 Lucas Maria Merckelbach, Consolidation and strength evolution of soft mud layers, CIVI, 2000.12.08, *prof.dr.ir. J.A. Battjes*

3613 Willem Johan Beekman, Measurement of the mechanical strength of granules and agglomerates, CHEM, 2000.12.11, *prof. M.Sc. B. Scarlett*

3614 Martin Bakker, Immobilisation of metallo-enzymes and their application in non-natural conversions, CHEM, 2000.12.11, *prof.dr. R.A. Sheldon*

3615 Aris Twerda, Advanced computational methods for complex flow simulation, PHYS, 2000.12.11, *prof.dr. S.W. de Leeuw*, *prof.dr. Dipl.-Ing. K. Hanjalić*

3616 Hendrika Cecilia Krijnsen, Advanced control of No_x diesel emissions, CHEM, 2000.12.12, *prof.ir. C.M. van den Bleek*

3617 Roger Christiaan Gerardus Mathijs van den Schoor, Applying polypyrrole on plastics for the electrodeposition of copper, MATE, 2000.12.12, *prof.dr. J.H.W. de Wit*

3618 Theo Arnold Kop, A dilatometric study of the austenite/ferrite interface mobility, MATE, 2000.12.12, *prof.dr.ir. S. van der Zwaag*

3619 Robertus Franciscus Hegge, Seismic macromodel estimation by inversion of focusing operators, GEOS, 2000.12.18, *prof.dr.ir. J. T. Fokkema*

3620 Adriana Cornelia Valkenburg, The reflective practice in product design teams, IDEE, 2000.12.18, *prof.dr.ir. J.A. Buijs*

3621 Frédérique José Paul Christian Marie Gishlain Verhelst, Integration of seismic data with well-log data, PHYS, 2000.12.18, cum laude, *prof.dr.ir. A.J. Berkhout*, *prof.dr.ir. C.P.A. Wapenaar*

3622 Meindert Wichert Pieter Dillen, Time-lapse seismic monitoring of sub-surface stress dynamics, GEOS, 2000.12.19, *prof.dr.ir. J.T. Fokkema, prof.dr.ir. C.P.A. Wapenaar*

3623 Peter Johan Harmsma, Integration of semiconductor optical amplifiers in wavelength division multiplexing photonic integrated circuits, ELEC, 2000.12.19, *prof.dr.ir. M.K. Smit, prof.dr.ir. H. Blok*

3624 Chretien Gustave Pierre Herben, Compact integrated cross connects for wavelength-division multiplexing networks, ELEC, 2000.12.19, cum laude, *prof.dr.ir. M.K. Smit, prof.dr.ir. H. Blok*

3625 Martijn Christian Clarijs, Design studies on cardiovascular and intraoperative brachytherapy and multiphase flow metering, LIFE, 2001.01.08, *prof.dr.ir. C.W.E. van Eijk*

3626 Martinus Gertrudis Antonius Tijssens, On the cohesive surface methodology for fracture of brittle heterogeneous solids, MECH, 2001.01.08, *prof.dr.ir. E. van der Giessen*

3627 Geert Brethouwer, Mixing of passive and reactive scalars in turbulent flows, MECH, 2001.01.08, *prof.dr.ir. F.T.M. Nieuwstadt*

3628 Zhonghe Shui, Some aspects of low content mono- and hybrid-fibre reinforced cementitious composites, CIVI, 2001.01.09, *prof.dr.ir. Ch.F. Hendriks*

3629 Danh Dai Bui, Rice husk ash as a mineral admixture for high performance concrete, CIVI, 2001.01.09, *prof.dr.ir. Ch.F. Hendriks*

3630 Fadhl Ali Saleh Al-nozaily, Performance and process analysis of duckweed-covered sewage lagoons for high strength sewage. The case of Sana'a, Yemen, CIVI, 2001.01.10, *prof.dr.ir. G.J.F.R. Alaerts*

3631 Andre Rene Koelewijn, Numerical analysis of soft soil tunneling, CIVI, 2001.01.12, *prof.dr.ir. A. Verruijt*

3632 Carmen Viorica Bela Tomescu, Low-cost sensor packaging, ELEC, 2001.01.15, *prof.dr. P.J. French*

3633 Eva Susanne Johanne Rudolph, Modelling of the phase behaviour of oil+water+nonionic surfactant systems, CHEM, 2001.01.15, *prof.dr.ir. J. de Swaan Arons*

3634 Vincent Hendrikus Gruis, Financieel-economische grondslagen voor woningcorporaties. Het bepalen van de bedrijfswaarde, risico's en het voorraadbeleid, ADMI, 2001.01.15, *prof.ing A.F. Thomsen*

3635 Jacoba Huberdina Antoinetta Schipperen, Computational modelling of failure in fibre reinforced plastic, CIVI, 2001.01.16, *prof.dr.ir. R. de Borst*

3636 Lucien Johannes Breems, Continuous-time sigma-delta modulation for IF A/D conversion in radio receivers, ELEC, 2001.01.16, *prof.dr.ir. J.H. Huijsing*

3637 Koenraad Mouthaan, Modelling RF high power bipolar transistors, ELEC, 2001.01.22, *prof.dr.ir. J.W. Slotboom, prof. M.Sc. J.L. Tauritz*

3638 Dorota Kurowicka, Techniques in representing high dimensional distributions, MATH, 2001.01.22, *prof.dr. R.M. Cooke*

3639 Rijk Gerritse van Veen, Quantum transport of electrons in Si/SiGe nanostructures, PHYS, 2001.01.22, *prof.dr.ir. S. Radelaar*

3640 Ijsbrand Jan van Straalen, Development of design rules for structural adhesive bonded joints, CIVI, 2001.01.23, *prof.dr.ir. J. Wardenier, prof.ir. F. Soetens*

3641 Dirk Nieuwegiesen, Research and development at Royal KPN - A history of the first hundred years of postal and telecommunications research in the Netherlands, HASS, 2001.01.23, *prof.dr. J. W. Drukker, prof.dr. J. Aasman*

3642 Kyra Isolde van Onselen, The influence of data quality on the detectability of sea-level height variations, GEOD, 2001.01.29, *prof.Dr.-Ing.Habil. R.A.P. Klees*

3643 Bastiaan Romein, Mathematical modelling of mammalian cells in suspension culture, LIFE, 2001.01.30, *prof.ir. K.C.A.M. Luyben, prof.dr.ir. J.J. Heijnen*

3644 Michiel Cornelis Johannes Bliemer, Analytical dynamic traffic assignment with interacting user-classes. Theoretical advances and applications using a variational inequality approach, CIVI, 2001.02.02, *prof.dr.ir. P.H.L. Bovy*

3645 Magne Setnes, Complexity reduction in fuzzy systems, ELEC, 2001.02.05, cum laude, *prof.ir. H.B. Verbruggen*

3646 Karel Jan Vollers, Twist and Bild. Creating non-orthogonal architecture, ARCH, 2001.02.06, cum laude, *prof.ir. J. Brouwer, prof.dr.ir. A.C.J.M. Eekhout*

3647 Barry Albartus Antonius Lambertus van Setten, Development of a liquid catalyst for diesel soot oxidation. From powder to prototype, CHEM, 2001.02.12, *prof.dr. J.A. Moulijn*

3648 Govert Arie Verspui, Catalytic carbonylation reactions in aqueous media, CHEM, 2001.02.12, *prof.dr. R.A. Sheldon*

3649 Janneke Jacoba Beun, PHB metabolism and N-removal in sequencing batch granular sludge reactors, LIFE, 2001.02.12, *prof.dr.ir. M.C.M. van Loosdrecht, prof.dr.ir. J.J. Heijnen*

3650 Lambertus Roelof Jan Haverkamp, State space identification. Theory and practice, ELEC, 2001.02.13, *prof.ir. H.B. Verbruggen, prof.dr.ir. M. Verhaegen*

3651 Nicolaas Hylke Bakker, Spatial orientation in virtual environments, MECH, 2001.02.13, *prof.dr.ir. H.G. Stassen*

3652 Axel Berthold, Low-temperature wafer-to-wafer bonding for microchemical systems, ELEC, 2001.02.19, *prof.dr. C.I.M. Beenakker*

3653 Ferdinand Lennaert Machiel Diermanse, Physically based modelling of rainfall-runoff processes, CIVI, 2001.02.19, *prof.dr.ir. C. van den Akker*

3654 Andreas Manfred Neumann, Characterizing industrial crystallizers of different scale and type, CHEM, 2001.02.19, *mu.prof.dr.ir. G.M. van Rosmalen*

3655 Gijsbertus Jan Otto Vermeer, Fundamentals of 3-D seismic survey design, GEOS, 2001.02.27, *prof.dr.ir. J.T. Fokkema*

3656 Marnix Louis Christian Henri Arnold, Instruction set extension for embedded processors, INFO, 2001.03.05, *prof.dr.ir. A.J. van de Goor*

3657 Abderrahim Moumen, Analysis and synthesis of compact feeds for large multiple-beam reflector antennas, ELEC, 2001.03.06, cum laude, *prof.dr.ir. L.P. Ligthart, prof.dr. T. Birand*

3658 Willem Jan Willemse, Computational intelligence: mortality models for actuaries, INFO, 2001.03.06, *prof.dr. H. Koppelaar*

3659 Renatus Gerardus Klaver, Novel interferometer to measure the figure of strongly aspherical mirrors, PHYS, 2001.03.06, *prof.dr.ir. J.J.M. Braat*

3660 Marilena Domnica Pavel, On the necessary degrees of freedom for helicopter and windturbine low-frequency mode modeling, AERO, 2001.03.12, *prof.dr.ir. TH. van Holten*

3661 Marco Diederik Jodocus Petrus Bijveld, Numerical modelling of estuarine flow over steep topography, CIVI, 2001.03.12, *prof.dr.ir. G.S. Stelling*

3662 Koob Frederik Jan Reinders, Feature-based visualization of time-dependent data, INFO, 2001.03.12, *prof.dr.ir. F.W. Jansen*

3663 François Henrie Léon Raymond Clemens, Hydrodynamic models in urban drainage: application and calibration, CIVI, 2001.03.13, *prof.dr.ir. G.S. Stelling*

3664 Cédric Paul Allier, Micromachined Si-well scintillator pixel detectors, PHYS, 2001.03.13, *prof.dr.ir. C.W.E. van Eijk*

3665 Jie Dang, Numerical simulation of unsteady partial cavity flows, MECH, 2001.03.19, *prof.dr.ir. G. Kuiper*

3666 Raymond Franciscus Hanssen, Radar interferometry. Data interpretation and error analysis, GEOD, 2001.03.20, cum laude, *prof.Dr.-Ing.Habil. R.A.P. Klees*

3667 Marjon Brigitte Diender, New process concepts for the enzymatic synthesis of amoxicillin from penicillin G, LIFE, 2001.03.20, *prof.dr.ir. J.J. Heijnen*

3668 Jacobus Franciscus Schijven, Virus removal from groundwater by soil passage . Modeling, field and laboratory experiments, CIVI, 2001.04.02, cum laude, *prof.dr.ir. C. van den Akker*

3669 Jan Foeke Kikstra, Modelling, design and control of a cogenerating nuclear gas turbine plant, ENER, 2001.04.02, *prof.dr.ir. A.H.M. Verkooijen, prof.ir. O.H. Bosgra*

3670 Rune Floborghagen, The far side, lunar gravimetry into the third millennium, AERO, 2001.04.09, cum laude, *prof.ir. K.F. Wakker*

3671 Derk Hendrik Pieter Maat, InP-based integrated MZI switches for optical communication, PHYS, 2001.04.09, *prof.dr.ir. H.J. Frankena, prof.dr.ir. M.K. Smit*

3672 Gerrit Jan Muilerman, Time-based logistics. An Analysis of the relevance, causes and impacts, ADMI, 2001.04.10, *prof.dr.ir. R.E.C.M. van der Heijden, prof.dr. A.I.J.M. van der Hoorn*

3673 Regine Willemien Vroom, Zicht op product- en procesontwikkelingsinformatie, in het bijzonder bij toeleveranciers aan de automobiellindustrie, IDEE, 2001.04.10, *prof.ir. P. de Ruwe, prof.dr. H.G. Sol*

3674 Marco Dettori, LMI techniques for control with application to a compact disc player mechanism, MECH, 2001.04.10, *prof.ir. O.H. Bosgra*

3675 Miodrag Djurica, Design of low power analog to digital converters, ELEC, 2001.04.17, *prof.dr.ir. J.H. Huijsing*

3676 Martijn Marsman, Ab initio calculations in scintillator research, PHYS, 2001.04.24, *prof.dr.ir. C.W.E. van Eijk*

- 3677 Julius Musyoka Ndambuki**, Multi-objective groundwater quantity management: a stochastic approach, CIVI, 2001.04.24, *prof.dr.ir. C. van den Akker*
- 3678 Jan-Willem van Aalst**, Knowledge management in courseware development, INFO, 2001.04.24, *prof.dr.ir. J.L.G. Dietz*, *prof.dr. G.A.M. van Kempen*
- 3679 Maarten Rolf Wegewijs**, Electronic transport in quantum dots, PHYS, 2001.04.26, *prof.dr.ir. G.E.W. Bauer*
- 3680 Tjerk Johan de Vries**, Blunt and sharp notch behaviour of Glare laminates, MATE, 2001.04.26, *prof.ir. L.B. Vogelesang*, *prof.dr.ir. R. de Borst*
- 3681 Adriaan Straub**, Technisch beheer door woningcorporaties in de 21e eeuw. Professioneel, klantgericht en duurzaam, ADMI, 2001.04.26, *prof.dr.ir. H. Priemus*
- 3682 Nicolaas Petrus Maria Scholten**, Technische en juridische grondslagen van de technische bouwregelgeving Woningwet en Bouwbesluit, ADMI, 2001.05.07, *prof.ir. J. Witteveen*, *prof.dr.ir. H. Priemus*
- 3683 Robert Gerard van den Ketterij**, Optimisation of the near-wellbore geometry of hydraulic fractures propagating from cased perforated completions, GEOS, 2001.05.07, *prof.dr. P.K. Currie*
- 3684 Weidong Zhu**, Adsorption and diffusion in microporous materials. An experimental study with the TEOM, CHEM, 2001.05.08, *prof.dr. J.A. Moulijn*, *prof.dr. F. Kapteijn*
- 3685 Margaretha Anna Wegman**, Alternative routes to activated side-chain donors of β -lactam antibiotics, LIFE, 2001.05.08, *prof.dr. R.A. Sheldon*
- 3686 Franklin Delano van der Hoeven**, RingRing. Ondergronds bouwen voor meervoudig ruimtegebruik boven en langs de ring in Rotterdam en in Amsterdam, ADMI, 2001.05.08, *prof.ir. H.C. Bekkering*
- 3687 Theo Anjes Maria Ruijl**, Ultra precision coordinate measuring machine. Design, calibration and error compensation, PHYS, 2001.05.10, cum laude, *prof.dr.ir. C.W.E. van Eijk*, *prof.dr.ir. P.H.J. Schellekens*
- 3688 Annemarie Elisa Wilhelmina Beers**, Monolithic catalysts for acylation and esterification, CHEM, 2001.05.15, *prof.dr. J.A. Moulijn*, *prof.dr. F. Kapteijn*
- 3689 Ary Johannes van Binsbergen**, Innovation steps towards efficient goods distribution systems for urban areas, ADMI, 2001.05.15, *prof.dr.ir. P.H.L. Bovy*, *prof.dr.ir. H. Priemus*
- 3690 Johannes Gregorius Schelte Nanne Visser**, Innovation steps towards efficient goods distribution systems for urban areas, ADMI, 2001.05.15, *prof.dr.ir. H. Priemus*, *prof.dr.ir. P.H.L. Bovy*
- 3691 Ramon Pascal van Gorkom**, Magnetoresistance in thin films of 3d-ferromagnets, PHYS, 2001.05.18, *prof.dr.ir. S. Radelaar*, *prof.dr.ir. T.M. Klapwijk*
- 3692 Michiel Christian van Vliet**, Selective epoxidations with hydrogen peroxide, CHEM, 2001.05.21, *prof.dr. R.A. Sheldon*
- 3693 Johan Ronald Valstar**, Inverse modeling of groundwater flow and transport, CIVI, 2001.05.21, *prof.dr.ir. C. van den Akker*, *prof. D.B. McLaughlin*
- 3694 Antonius Wilhelmus Johannes Heijs**, 3D simulation and visualization studies of flow in porous media, PHYS, 2001.05.22, *prof.dr. S.W. de Leeuw*

3695 Adrianus Hubertus van Drunen, 's-Hertogenbosch 'van straet tot stroom', HASS, 2001.05.22, *prof.dr.ir. F.W. van Voorden*

3696 Carla Koopman, Purification of gypsum from the phosphoric acid production by recrystallization with simultaneous extraction, CHEM, 2001.05.22, *prof.dr. G.J. Witkamp*

3697 Hindrik de Boer, Shape optimization of fabric reinforced products, MECH, 2001.05.23, *prof.dr.ir. A. van Keulen*

3698 Martin John Kühn, Dynamics and design optimisation of offshore wind energy conversion systems, CIVI, 2001.06.05, cum laude, *prof.dr. J.B. Dragt, prof.Dr.-Ing. R. Gasch*

3699 Predag Sidjanin, A cognitive framework for an urban environment design tool, ADMI, 2001.06.05, *prof. A. Tzonis, mv.prof.Dr.-Ing.Habil. W. Gerhardt*

3700 Andrei Radulescu, Compile-time scheduling for distributed-memory systems, INFO, 2001.06.05, *prof.dr.ir. H.J. Sips*

3701 Ahmed Shawky Mohamed, Water demand management. Approach, experience and application to Egypt, CIVI, 2001.06.06, *prof.ir. E. van Beek, prof.dr.ir. H.G. Savenije*

3702 Frank Theo Anthonie Willem Wajer, Non-cartesian MRI scan time reduction through sparse sampling, PHYS, 2001.06.07, *prof.dr.ir. A.F. Mehlkopf*

3703 Jan van der Kruk, Three-dimensional imaging of multi-component, GEOS, 2001.06.07, *prof.dr.ir. J.T. Fokkema, prof.dr.ir. P.M. van den Berg*

3704 Jan Willem Anton Victor Schoolmeesters, Three-dimensional processing of marine seismic data by spectral decomposition, GEOS, 2001.06.07, *prof.dr.ir. J.T. Fokkema, prof.dr.ir. P.M. van den Berg*

3705 Philippe Alfons Lodewijk Wauters, Modelling and mechanisms of granulation, CHEM, 2001.06.11, *prof. M.Sc. B. Scarlett*

3706 Joo-Hwa Bay, Cognitive biases in design. The case of tropical architecture, ARCH, 2001.06.11, *prof. A. Tzonis*

3707 Gerard Johannes Pieter Nijse, Linear motion systems. A modular approach for improved straightness performance, MECH, 2001.06.12, *prof.dr.ir. H.F. van Beek*

3708 Nils Rosmuller, Safety analysis of transport corridors, HASS, 2001.06.12, *prof.dr.ir. R.E.C.M. van der Heijden*

3709 Garth Nathan Wells, Discontinuous modelling of strain localisation and failure, CIVI, 2001.06.12, cum laude, *prof.dr.ir. R. de Borst*

3710 Carleen Frances Maitland, Institutional assets. Shaping the potential for electronic commerce in developing countries, ADMI, 2001.06.18, *prof.dr. W.H. Melody*

3711 Stefania Usai, A new approach for long term monitoring of deformations by differential sar interferometry, GEOS, 2001.06.18, *prof.dr.ir. J.T. Fokkema*

3712 Pieter Jurriaan van der Wolk, Modelling CCT-diagrams of engineering steels using neural networks, MATE, 2001.06.18, *prof.dr.ir. S. van der Zwaag*

3713 David Martinus Johannes Tax, One-class classification. Concept-learning in the absence of counter-examples, PHYS, 2001.06.19, *prof.dr. I.T. Young*

3714 Jeroen Augustinus Wilhelmus Maria Vos, Module and system design in flexibly automated assembly, MECH, 2001.06.19, *prof.dr.ir. H.J.J. Kals*

3715 Joris Karel Catharina Alfons Stefaan Willems, Bundeling van infrastructuur. Theoretische en praktische waarde van een ruimtelijk inrichtingsconcept, CIVI, 2001.06.19, *prof.ir. F.M. Sanders, prof.dr.ir. R.E.C.M. van der Heijden*

3716 Jiming Peng, New design and an analysis of interior point methods, MATH, 2001.06.20, cum laude, *prof.dr.ir. C. Roos, prof.dr. T. Terlaky*

3717 Marcela Maria Busnelli, Numerical simulation of free surface flows with steep gradients, CIVI, 2001.06.25, *prof.dr.ir. G.S. Stelling*

3718 Remco Gerben Schuurman, The physical behaviour of shear connections in composite slabs, CIVI, 2001.06.25, *prof.ir. J.W.B. Stark*

3719 Michael Stendert de Wit, Uncertainty in predictions of thermal comfort in buildings, CIVI, 2001.06.25, *prof.ir. A.C.W.M. Vrouwenvelder, prof.ir. G.L.M. Augenbroe*

3720 Johanna Maria Cornelissen, Distribution and control of coronary blood flow, MECH, 2001.09.04, *prof.dr.ir. H.G. Stassen, prof.dr.ir. J.A.E. Spaan*

3721 Danny Wilms Floet, Hotspot mixing in THz Niobium superconducting hot electron bolometer mixers, PHYS, 2001.09.04, *prof.dr.ir. T.M. Klapwijk*

3722 Johanna Maria Lucia Kint, Expo 58 als belichaming van het humanistisch modernisme, HASS, 2001.09.04, *prof.dr. J.W. Drukker*

3723 Wouter Broere, Tunnel face stability & new CPT applications, CIVI, 2001.09.10, *prof.ir. A.F. van Tol, prof.ir. E. Horvat*

3724 Thomas Jan de Hoog, Rational orthonormal bases and related transforms in linear system modeling, MECH, 2001.09.10, *prof.ir. O.H. Bosgra, prof.dr.ir. P.M.J. van den Hof*

3725 Lars Petrus Henricus Jeurgens, On the initial oxidation of aluminium in oxygen gas, MATE, 2001.09.10, *prof.dr.ir. E.J. Mittemeijer, prof.dr.ir. S. van der Zwaag*

3726 Almer Engelbert Carl van der Stoel, Grouting for pile foundation improvement, CIVI, 2001.09.11, *prof.ir. A.F. van Tol, prof.ir. J. van Stigt*

3727 Lukas Michael van Langen, Penicillin acylase: properties, applications and prospects in the biocatalytic production of fine chemicals, LIFE, 2001.09.11, *prof.dr. R.A. Sheldon*

3728 Remko van der Lugt, Sketching in design idea generation meetings, ADMI, 2001.09.11, *prof.dr.ir. J.A. Buijs*

3729 Marinus Franciscus Wilhelmus Henricus Antonius Janssen, Designing electronic intermediaries. An agent-based approach for designing interorganizational coordination mechanisms, ADMI, 2001.09.17, *prof.dr. H.G. Sol*

3730 Adrianus Johannes Martinus Maria van Zuthpen, High-temperature CVD silicon on ceramic substrates for solar cell applications, ELEC, 2001.09.17, *prof.dr. C.I.M. Beenakker, prof.dr. W.C. Sinke*

3731 Johannes Antonius Andreas Jozef Janssen, Compiler strategies for transport triggered architectures, INFO, 2001.09.17, *prof.dr.ir. A.J. van de Goor, prof.dr.ir. H. Corporaal*

3732 Mieke Antonia Riemke Oostra, Componentontwerpen. De rol van de architect in productinnovatie, ARCH, 2001.09.18, *prof.dr.ir. A.C.J.M. Eekhout*

3733 Yahia Ahmed Alfestawi, The structural, paleogeographical and hydrocarbon systems analysis of the Ghadamis and Murzuq Basins, West Libya, with emphasis on their relation to the intervening Al Qarqaf Arch, GEOS, 2001.09.18, *prof.ir. K.J. Weber*

3734 Meindert Hendrik Nagel, Environmental quality in the supply chain of an original equipment manufacturer in the electronics industry, MECH, 2001.09.18, *prof.dr.ir. J.H. Stevels*

3735 Fabiano Fruett, The piezjunction effect in silicon, its consequences and applications for integrated circuits and sensors, ELEC, 2001.09.24, *prof.dr.ir. A.H.M. van Roermund*

3736 Caspar Heimen van der Wal, Quantum superpositions of persistent Josephson currents, PHYS, 2001.09.24, cum laude, *prof.dr.ir. J.E. Mooij*

3737 Jacobus George Eduard Olk, Distributed bucket processing. A paradigm for parallel image processing, PHYS, 2001.09.24, *prof.dr. I.T. Young*

3738 Karen Thekla den Boer, Surgical task performance. Assessment using time-action analysis, MECH, 2001.09.25, *prof.dr.ir. H.G. Stassen, prof.dr. D.J. Douma*

3739 Joost Geert Vogtlander, The model of the Eco-costs/Value ratio. A new LCA based decision support tool, MECH, 2001.09.25, *prof.dr.ir. J.C. Brezet, prof.dr.ir. Ch.F. Hendriks*

3740 Cornelis Pieter Heij, Single-charge transport in coupled nanostructures, PHYS, 2001.09.25, *prof.dr.ir. J.E. Mooij*

3741 Martijn Ary Hooimeijer, Reduction of complex computational models, MATH, 2001.10.01, *prof.dr.ir. A. W. Heemink, prof.dr.ir. P. van der Veer*

3742 Said Hamdioui, Testing multi-port memories. Theory and practice, INFO, 2001.10.01, cum laude, *prof.dr.ir. A.J. van de Goor*

3743 Xiaodi Hao, Model-based optimisation of sustainable biological nutrient removal processes, LIFE, 2001.10.01, *prof.dr.ir. M.C.M. van Loosdrecht, prof.dr.ir. J.J. Heijnen*

3744 Miguel Adriano Mateus dos Reis, Biomonitoring and assessment of atmospheric trace elements in Portugal. Methods, response modelling and nuclear analytical techniques, LIFE, 2001.10.02, *prof.dr.ir. J.J.M. de Goeij, prof.dr. J.C. Soares*

3745 Jan Rudolf van Ommen, Monitoring fluidized bed hydrodynamics, CHEM, 2001.10.02, *prof.ir. C.M. van den Bleek, prof.dr.ir. J.C. Schouten*

3746 Martin Albert Kroon, The transverse junction solar cell, ELEC, 2001.10.02, *prof.dr. C.I.M. Beenakker*

3747 Ronald van Dijk, Optimization of thin-walled packaging, MECH, 2001.10.08, *prof.dr.ir. A. van Keulen*

- 3748 Marco Leonardus Verlaan**, Dispersion in heterogeneous media. Fundamental issues inspired by underground gas storage, GEOS, 2001.10.08, *prof.ir. C.P.J. W. van Kruijsdijk*
- 3749 Shiva Zohrevand**, Film formation from water-borne latex dispersions, CHEM, 2001.10.09, *prof.dr.ir. A. de Posthuma de Boer*
- 3750 Joannes Leonardus Jurrian Zijl**, Polymers in extensional flow. A comparison of microscopic and macroscopic simulations with birefringence experiments, MECH, 2001.10.09, *prof.dr.ir. B.H.A.A. van den Brule*
- 3751 Maja Pantic**, Facial expression analysis by computational intelligence techniques, INFO, 2001.10.15, *prof.dr. H. Koppelaar*
- 3752 Barbara Ina Anderson**, Modeling and inversion methods for the interpretation of resistivity logging tool response, ELEC, 2001.10.15, *prof.dr.ir. H. Blok, prof.dr.ir. J.T. Fokkema*
- 3753 Marina Skurichina**, Stabilizing weak classifiers, PHYS, 2001.10.15, *prof.dr. I.T. Young*
- 3754 Dominica Anna Silvia Pauly**, Ambigüiteit in het spel. De casus PolyVinylChloride, ADMI, 2001.10.16, *prof.dr.mr. E.F. ten Heuvelhof*
- 3755 Wibo Daniel van Noort**, Bipolar transistors with an arsenic spike epi layer. Technology and characterization, ELEC, 2001.10.16, cum laude, *prof.dr.ir. J.W. Slotboom*
- 3756 Alfonsus Alexander Maria Schaafsma**, Dynamisch railverkeersmanagement. Besturingsconcept voor railverkeer op basis van het lagenmodel verkeer en vervoer, ADMI, 2001.10.16, *prof.dr.ir. P.H.L. Bovy*
- 3757 Aleksandra Tisma**, Delta M. A tool for metropolitan designing systems, ARCH, 2001.10.29, *prof.ir. D.H. Frieling*
- 3758 Yvonne van der Meer**, Characterization of NiW and CoW hydrotreating catalysts, PHYS, 2001.10.29, *prof.dr. G.J. Kearley, prof.dr. J.A.R. van Veen*
- 3759 Marleen Catherina Johanna Nyst**, A new approach to model the kinematics of crustal deformation (with applications to Aegea and Southeast Asia), GEOS, 2001.10.29, *prof.ir. B.A.C. Ambrosius*
- 3760 Mattheüs Hendrik Marinus Huisert**, Electrochemical characterisation of filiform corrosion on rolled products, MATE, 2001.10.30, *prof.ir. L. Katgerman, prof.dr. J.H.W. de Wit*
- 3761 Erik van der Kolk**, Vacuum ultraviolet phosphors for lambs and displays, PHYS, 2001.10.30, *prof.dr.ir. C.W.E. van Eijk*
- 3762 Sander Meijer**, Partial discharge diagnosis of high voltage gas insulated systems, ELEC, 2001.11.05, *prof.dr. J.J. Smit*
- 3763 Charles Theodorus Kaiser**, Diffusion, reorientation and small magnetic fields studied by μ SR, PHYS, 2001.11.05, *prof.dr. G.J. Kearley*
- 3764 Clair Johnston Glossner**, The Delft-Java engine, INFO, 2001.11.05, *prof.dr. S. Vassiliadis*
- 3765 Marcellus Paulus van Lohuizen**, Parallel natural language parsing: from analysis to speedup, INFO, 2001.11.06, *prof.dr.ir. H.J. Sips, prof.dr.ir. A. Nijholt*
- 3766 Jacob Marten Hoekstra**, Designing for safety: the free flight air traffic management concept, ADMI, 2001.11.06, *prof.dr. A.R. Hale*

- 3767 Gerard Willem Hofland**, Isoelectric precipitation of proteins using carbon dioxide as a volatile acid, CHEM, 2001.11.06, cum laude, *prof.dr. G.J. Witkamp*, *prof.dr.ir. L.A.M. van der Wielen*
- 3768 Vincent Willemus Johannes Verhoeven**, A fundamental study on materials for Li-ion batteries, MATE, 2001.11.12, *prof.dr. I.M. de Schepper*, *prof.dr. J. Schoonman*
- 3769 Martin Antonius van Es**, Polymer-clay nanocomposites. The importance of particle dimensions, MATE, 2001.11.12, *prof.dr.ir. J. van Turnhout*
- 3770 Alexander Ijpma**, Learning methods for machine vibration analysis and health monitoring, PHYS, 2001.11.12, *prof.dr.ir. L.J. van Vliet*
- 3771 Erwin Bovens**, Structure and dynamics of potential MRI contrast agents, CHEM, 2001.11.13, *prof.dr.ir. H. van Bekkum*
- 3772 Johannis Willem van Vliet**, Design for manufacturing development and application of a process based design support methodology, IDEE, 2001.11.13, *prof.dr.ir. H.J.J. Kals*, *prof.Dr.-Ing. Habil. B. Karpuschewski*
- 3773 Karin Margriet Schalkwijk**, Decomposition of multicomponent ocean-bottom data into P- and S-waves, GEOS, 2001.11.13, *prof.dr.ir. C.P.A. Wapenaar*, *prof.dr.ir. A.J. Berkhout*
- 3774 Bojan Ničeno**, An unstructured parallel algorithm for large eddy and conjugate heat transfer simulations, PHYS, 2001.11.19, *prof.dr. Dipl.-Ing. K. Hanjalić*
- 3775 Arie Dijkman**, Catalytic oxidation of alcohols, CHEM, 2001.11.19, *prof.dr. R.A. Sheldon*
- 3776 Johannes Jacobus Graaff**, Designing interactive systems, INFO, 2001.11.19, *prof.dr. H.G. Sol*
- 3777 Anke Marja Berends**, Development of supported liquid membrane extraction processes for slurry treatment, MECH, 2001.11.20, *prof.dr. G.J. Witkamp*
- 3778 Jan Marinus Verhelst**, Model evaluation and dynamics of a viscoelastic flow in a complex geometry, MECH, 2001.11.20, *prof.dr.ir. F.T.M. Nieuwstadt*
- 3779 Jacob Johan Piet**, Excitonic interactions in multichromophoric arrays, CHEM, 2001.11.20, *prof.dr.ir. A.H.M. Verkooijen*
- 3780 Ioannis Patras**, Object based video segmentation with region-labeling, ELEC, 2001.11.26, *prof.dr.ir. R.L. Lagendijk*
- 3781 Ewout Kemner**, Organometallics in confined geometries: Ferrocene in zeolite Y, PHYS, 2001.11.26, *prof.dr. G.J. Kearley*, *prof.dr. I.M. de Schepper*
- 3782 Bartholomeus Hendrikus Maria Gerritsen**, Using weighted alpha complexes in subsurface modelling, MECH, 2001.11.26, *prof.dr.ir. K. van der Werff*, *prof.dr.ir. J. T. Fokkema*
- 3783 Jeroen Leonardus den Hollander**, Liquid-liquid chromatographic systems for enzymatic reactors, LIFE, 2001.11.27, *prof.dr.ir. L.A.M. van der Wielen*, *prof.ir. K.C.A.M. Luyben*
- 3784 Richard Quint van der Linde**, Bipedal walking active springs, gait synthesis & prototype, MECH, 2001.11.27, cum laude, *prof.dr.ir. H.G. Stassen*, *prof.dr. F.C.T. van der Helm*

3785 Justus Laurens Herder, Energy-free systems, MECH, 2001.11.27, cum laude, *prof.dr. J.C. Cool*

3786 Jeroen Christiaan Martijn Goudswaard, Multi-angle multi-scale analysis of seismic reflection data, GEOS, 2001.12.03, *prof.dr.ir. C.P.A. Wapenaar*, *prof.dr.ir. J.T. Fokkema*

3787 Gerd-Jan ten Brink, Green catalytic oxidations, CHEM, 2001.12.03, cum laude, *prof.dr. R.A. Sheldon*

3788 Wieke Blok, Chains and Networks in Multimodal Passenger Transport. Exploring a design approach, INFO, 2001.12.03, *prof.dr. H.G. Sol*

3789 Hendrik Willem Christiaan Postma, Carbon nanotube junctions and devices, PHYS, 2001.12.04, *prof.dr. C. Dekker*

3790 Renate Gerarda Klaassen, The international university curriculum: challenges in English-medium engineering education, HASS, 2001.12.04, *prof.dr. W. Veen*, *prof.dr. W. Herrlitz*

3791 Sjoerd Jan Gelsema, Advanced γ -ray spectrometry dealing with coincidence and attenuation effects, PHYS, 2001.12.04, *prof.dr.ir. J.J.M. de Goeij*, *prof.dr.ir. C.W.E. van Eijk*

3792 Iulian Apachitei, Synthesis and characterization of composite autocatalytic nickel coatings on aluminium, MATE, 2001.12.07, *prof.ir. L. Katgerman*

3793 Matheo Joseph Rooden, Design models for anticipating future usage, IDEE, 2001.12.10, *prof. W.S. Green*, *prof. J.R. Wilson*

3794 Daniël Verkoeijen, The measurement and modeling of granulation processes - a turbo view, MATE, 2001.12.10, *prof. M.Sc. B. Scarlett*

3795 Sijrk Holger Koekebakker, Model based control of flight simulator motion systems, MECH, 2001.12.10, *prof.ir. O.H. Bosgra*

3796 Gerhard Jan Gelderblom, User cognition in product operation, IDEE, 2001.12.11, *prof. W.S. Green*, *prof.dr. W.A. Wagenaar*

3797 Jan Rijn Zeevaart, Metal ion speciation in blood plasma as a tool in predicting in vivo behaviour of potential bone seeking radio-pharmaceuticals, LIFE, 2001.12.11, *prof.dr.ir. J.J.M. de Goeij*

3798 Zhenhua Ma, Measurement of particle size and shape by laser light scattering, MATE, 2001.12.11, *prof. M.Sc. B. Scarlett*

3799 Hendrik Jacobus Aric Breur, Fouling and bioprotection of metals, MATE, 2001.12.14, *prof.dr. J.H.W. de Wit*, *prof.dr.ir. J. van Turnhout*

3800 Jorg Wilfred Janssen, Spatially resolved spectroscopy of carbon nanotubes, PHYS, 2001.12.14, *prof.dr.ir. L.P. Kouwenhoven*, *prof.dr. C. Dekker*

3801 Dick de Ridder, Adaptive methods of image processing, PHYS, 2001.12.14, *prof.dr.ir. L.J. van Vliet*

3802 Otto Matthéus Heeres, Modern strategies for the computational modelling of the cyclic and transient behaviour of soils, CIVI, 2001.12.17, *prof.dr.ir. R. de Borst*

3803 Eelco Luc Jansen, Nonlinear vibrations of anisotropic cylindrical shells, AERO, 2001.12.17, *prof.dr. J. Arbocz*

3804 Richard Johannes Matheus Janssen, Structure and shear in a cohesive powder, MATE, 2001.12.17, *prof. M.Sc. B. Scarlett*

Extract from the register of honorary doctorates

Each item of the following list mentions the name of the honorary doctor, the date of the decree awarding the doctorate, the preamble (in Dutch), the date of awarding the doctorate honoris causa, the name of the appointed promotor and other relevant data.

[1] **A. Kuyper**

1906.12.19: wegens zijn uitstekende verdiensten, welke zijn gelegen in zijne handelingen als minister en (welke) ten voordeel strekken van de geheele Technische Hoogeschool. 1907.01.08, Prof.dr. S. Hoogewerff, (Ing. 22 (1907) no.2 blz. 29-30)

[2] **J. Bosscha**

1906.12.19: wegens zijne zeer uitstekende verdiensten als natuuronderzoeker, ... als voortreffelijk leermeester in de toegepaste natuurkunde ... en als voorbereider ... van plannen tot uitbreiding en verbetering van het technisch onderwijs. 1907.01.08, Prof.dr. S. Hoogewerff, (Ing. 22(1907) no.2 blz. 30-31)

[3] **G. van Dienen**

1906.12.19: wegens zijne buitengewone verdiensten op technisch-wetenschappelijk gebied en als uitvoerend ingenieur. 1907.01.08, Prof.ir. S.G. Everts, (Ing. 22 (1907) no.3 blz. 59)

[4] **C. Lely**

1906.12.19: wegens zijne buitengewone verdiensten als ingenieur, ten opzichte van de ontwikkeling der verkeersmiddelen in Nederland en zijne koloniën, en op het gebied der sociaaltechnische wergeving. 1907.01.08, Prof.ir. S.G. Everts, (Ing. 22 (1907) no.3 blz. 59-60)

[5] **J. Kraus**

1906.12.19: wegens zijne buitengewone verdiensten als ingenieur en ten opzichte van het hooger technisch onderwijs. 1907.01.08, Prof.ir. S.G. Everts, (Ing. 22 (1907) no.3 blz. 60-61)

[6] **P.J.H. Cuypers**

1906.12.19: wegens zijn verdiensten voor de bouwkunst, de archeologie, de herleving van het ambacht en het vakonderwijs. 1907.01.08, Prof.ir. J.F. Klinkhamer, (Ing.22 (1907) no.5 blz. 107-110)

[7] **J.H. van 't Hoff**

1907.12.20: wegens zijne zeer bijzondere verdiensten op het gebied der scheikunde en hare toepassingen. Gezondheidsredenen verhinderen de overreiking van het diploma in een buitengewone vergadering van de Senaat.

[8] **R.D.M. Verbeek**

1908.12.17: wegens zijne bijzondere verdiensten op het gebied der geologie van den Nederlandsch-Indischen Archipel. 1909.01.08, Prof.dr. G.A.F. Molengraaff, (Ing. 24 (1909) no. 3 blz. 55-58)

[9] **J. Loric**

1911.12.16: wegens zijn bijzondere verdiensten op het gebied der geologie van Nederland. 1912.01.08, Prof.dr. H.G. Jonker, (Ing. 27 (1912) no.2 blz. 60-61)

[10] **J.L. Cluysenaer**

1913.06.20: wegens zijne zeer uitstekende verdiensten: als ingenieur ten aanzien van den ingenieursstand, op het gebied van het technisch hooger onderwijs, en voor de Technische Hoogeschool in het bijzonder. 1913.09.19, Prof.ir. W.K. Behrens, (Ing. 28 (1913) no.39 blz. 819-822)

[11] **A.C.C.G. van Hemert**

1916.12.08: wegens zijne uitstekende verdiensten op het gebied van onderwijs en wetenschap, techniek en onderneming. 1917.01.08, Prof.ir. J. Nelemans, (Jaarb. 1917 blz. 57-62)

[12] **G.W. van Heukelom**

1916.12.08: wegens zijne uitnemende verdiensten als ontwerpend en uitvoerend ingenieur, bouwmeester van spoorwegwerken. 1917.01.08, Prof.ir. J. Nelemans, (Jaarb. 1917 blz. 62-68)

[13] G.L.F. Philips

1916.12.08: wegens zijne bijzondere verdiensten voor de bevordering van het wetenschappelijk onderzoek in de nijverheid. 1917.01.08, Prof.dr. W. Reinders, (Jaarb. 1917 blz. 69-75)

[14] H.A. Lorentz

1918.01.23: op grond van zijne buitengewone verdiensten voor wetenschap en onderwijs in het algemeen en de theoretische electriciteitsleer, fundament der electrotechniek, in het bijzonder. 1918.03.07, Prof.dr. M. de Haas, (Jaarb. 1918 blz. 17-33), Antwoord: De ontwikkeling der natuurkunde in de laatste halve eeuw. (Jaarb. 1918 blz. 34-40)

[15] J. Schroeder van der Kolk

1918.12.16: op grond van het belangrijke wetenschappelijke werk, dat hij geleverd heeft betreffende de berekening en het experimenteel onderzoek van bruggen. 1919.01.08, Prof.ir. N.C. Kist, (Jaarb. 1919 blz. 43-49)

[16] H. Kamerlingh Onnes

1919.11.28: wegens zijn zeer uitstekende verdiensten voor de wetenschap en de techniek der lage temperaturen. 1920.01.08, Prof.dr. L.H. Siertsema, (Jaarb. 1920 blz. 38-45)

[17] C.P. Holst Gilliszoon

1922.05.26: wegens de even oorspronkelijke als wetenschappelijk-paedagogische wijze, waarop hij vele technische vraagstukken op uiteenlopende gebieden heeft bewerkt en onderwezen. 1922.06.02, Prof.ir. J.A.G. van der Steur, (Jaarb. 1922 blz. 21-23)

[18] H.P. Berlage

1924.12.08: wegens zijn baanbrekendden arbeid in de bouwkunstabeweging. 1925.01.08, Prof.ir. J.A.G. van der Steur, (Jaarb. 1925 blz. 49-57)

[19] F.G. Waller

1925.05.25: wegens zijn uitstekende verdiensten als leider van groote industriële ondernemingen. 1925.10.06, Prof.dr. J.G.C. Volmer, (Jaarb. 1926 blz. 48-59), Antwoord: Over het belang van de ingenieursstudie voor toekomstige leiders der industrië. (Jaarb. 1926 blz. 60-64)

[20] N. Easton Wing

1927.12.06: wegens zijn baanbrekend werk op geologisch en mijnbouwkundig gebied, vooral in verband met den bodembouw in Nederlandsch Oost-Indië. 1928.01.09, Prof.dr. G.A.F. Molengraaff, (Jaarb. 1928 blz. 38-49)

[21] C.F. Stork

1928.12.03: wegens zijn zeer uitstekende verdiensten als technisch leider van groote industriële ondernemingen en als bevorderaar van den werktuigbouw in Nederland. 1929.03.13, L.A. van Royen, (Jaarb. 1929 blz. 62-75), Antwoord: Over plaats en taak van de Nederlandse metaalindustrie. (Jaarb. 1929 blz. 76-81)

[22] H.W.A. Deterding

1928.12.03: wegens zijn zeldzame verdiensten als stichter en leider van een der machtigste industriële concerns en als bevorderaar van de ontwikkeling der techniek in Nederland. 1929.03.13, Prof.dr. J.G.C. Volmer, (Jaarb. 1929 blz. 82-91), Antwoord: De waarde van het personeel en in het bijzonder van academici voor de onderneming. (Jaarb. 1929 blz. 92-94)

[23] F.K.Th. van Iterson

1930.06.16: wegens zijn zeer bijzondere verdiensten voor de ontwikkeling van de werktuigbouwkunde en hare hulp-wetenschappen. 1930.09.22, Prof.ir. A.J. ter Linden, (Jaarb. 1930 blz. 50-56)

[24] **P. Joosting**

1930.06.16: wegens zijn uitnemende verdiensten op het gebied van den brugbouw. 1930.09.22, Prof.ir. N.C. Kist, (Jaarb. 1930 blz. 57-63)

[25] **J.A. Ringers**

1930.06.16: wegens zijn uitnemende verdiensten op het gebied van de waterbouwkunde. 1930.09.22, Prof.ir. G.H. van Mourik Broekman, (Jaarb. 1930 blz. 64-70)

[26] **G. Holst**

1933.12.05: wegens zijn zeer uitstekende verdiensten voor wetenschap en industrie in het algemeen en de technische physica in het bijzonder. 1934.01.08, Prof.dr. M. de Haas, (Jaarb. 1934 blz. 54-61)

[27] **M.H. Damme**

1937.11.30: op grond van zijne veelzijdige en vruchtbare werkzaamheid als ingenieur in het algemeen en in het bijzonder wegens zijne buitengewone verdiensten als bevorderaar van de ontwikkeling, toepassing en organisatie van de electrische verbindingstechniek. 1938.01.08, Prof.dr.ir. W.Th. Bähler, (Jaarb. 1938 blz. 41-52), Antwoord: Over het staatsbedrijf als een verkieslijke ondernemingsvorm. (Jaarb. 1938 blz. 53-57)

[28] **W.J.H. Harmsen**

1946.11.28: wegens zijn groote technische verdiensten als leider bij den bouw van bruggen in de Rijkswegen vóór den oorlog en wegens zijn groote technische en organisatorische verdiensten ten aanzien van het spoedig herstel van oorlogsschade aan de Waterstaatswerken in beheer bij het Rijk en andere openbare lichamen na de bevrijding. 1947.01.08, Prof.ir. J.W. Thierry, (Jaarb. 1947 blz. 33-37)

[29] **W. Hupkes**

1946.11.28: wegens zijn zeer uitstekende verdiensten als technisch leider van het spoorwegbedrijf en als bevorderaar van den werktuigbouw in ons land. 1947.01.08, Prof.ir. F. Westendorp, (Jaarb. 1947 blz. 38-42)

[30] **A. Plesman**

1946.11.28: wegens zijn uitstekende verdiensten als baanbrekend leider van de Nederlandsche verkeersluchtvaart. 1947.01.08, Prof.dr.ir. H.J. van der Maas, (Jaarb. 1947 blz. 43-47)

[31] **D.P. Ross van Lennep**

1946.11.28: wegens zijn uitnemende verdiensten op chemisch-technologisch gebied. 1947.01.08, Prof.dr. H.I. Waterman, (Jaarb. 1947 blz. 48-51)

[32] **A. Stoll**

1947.06.19: op grond van zijn buitengewone verdiensten op het gebied der biochemie en in het bijzonder ook op dat der technische botanie. 1947.09.15, Prof.dr.ir. G. van Iterson Jr, (Discours, prononcé par le Professeur G. van Iterson Jr, le 15 septembre 1947, à l'occasion de la remise au Professeur Dr. A. Stoll de la bulle de docteur honoris causa dans la science technique. Delft 1947, 11 blz.)

[33] **V.J.P. de Blocq van Kuffeler**

1949.03.15: wegens zijn uitstekende organisatorische en technische verdiensten bij de afsluiting en gedeeltelijke drooglegging van de Zuiderzee. 1949.09.19, Prof.ir. J.T. Thijsse, (Jaarb. 1949 blz. 53-57)

[34] **P. Verhagen**

1949.12.07: op grond van zijn oorspronkelijk en omvangrijk aandeel in de herleving van de Nederlandsche stedenbouwkunde en van zijn voortreffelijke bijdrage tot den wederopbouw van stad en land. 1950.01.07, Prof.ir. J.H. Froger, (Jaarb. 1950 blz. 38-42)

[35] **J. C. van Staveren**

1950.03.22: op grond van zijn organisatorischen en technisch-wetenschappelijken arbeid voor de Nederlandsche electriciteitsvoorziening, die ook ver buiten de grenzen van ons vaderland erkenning en waardeering heeft gevonden. 1950.09.18, Prof.Dr.-Ing.ir. H.S. Hallo, (Jaarb. 1950 blz. 43-47)

[36] **Bernhard, Prins der Nederlanden**

1951.07.03: wegens zijn zeer uitstekende verdiensten. 1951.11.16, Prof.dr.ir. A.J. Kluyver, (Jaarb. 1952 blz. 58-68), Antwoord: Techniek en economie als grondslag van de industrialisatie. (Jaarb. 1952 blz. 69-75)

[37] **H.J. van Doorne**

1953.03.27: op grond van zijn uitstekende verdiensten voor de ontwikkeling van de Nederlandse nijverheid op het gebied van de bouw van motorvoertuigen en aanverwante constructies in zijn hoedanigheid van constructeur en ondernemer. 1953.09.21, Prof.ir. J.J. Broeze, (Jaarb. 1953 blz. 47-53), Antwoord: De voorsprong van de ingenieur op de auto-didact. (Jaarb. 1953 blz. 54-57)

[38] **L. Neher**

1954.06.21: op grond van de door hem betoonde stuwende activiteit bij de leiding en de wederopbouw van het Staatsbedrijf der Posterijen, Telegrafie en Telefonie. 1954.09.20, Prof.ir. L.H.M. Huydts, (Jaarb. 1954 blz. 68-80), Antwoord: Zuivere en toegepaste wetenschap als basis der telecommunicatietechniek. (Jaarb. 1954 blz. 82-86)

[39] **J.J.P. Oud**

1955.05.26: op grond van zijn uitnemende verdiensten als bouwmeester en publicist voor de ontwikkeling van de architectuur in de twintigste eeuw. 1955.09.26, Prof.ir. J.F. Berghoef, (Jaarb. 1955 blz. 81-85)

[40] **F.Q. den Hollander**

1955.05.26: op grond van zijn uitstekende verdiensten op technisch-wetenschappelijk en organisatorisch gebied in het bijzonder als leider van de Nederlandsche Spoorwegen. 1955.09.26, Prof.ir. H.C.A. van Eldik Thieme, (Jaarb. 1955 blz. 86-90)

[41] **Th.S.G.J.M. van Schaik**

1955.05.26: op grond van zijn uitnemende verdiensten op wetenschappelijk, technisch en constructief gebied. 1955.09.26, Prof.dr.ir. J.W.H. Uytenbogaart, (Jaarb. 1955 blz. 91-93)

[42] **H.A. Hidde Nijland**

1955.05.26: op grond van zijn zeer bijzondere verdiensten als constructeur en als grondvester van een internationale industrie van unieke betekenis. 1955.09.26, Prof.ir. W. Fontein, (Jaarb. 1955 blz. 94-96)

[43] **H. Bloemgarten**

1955.05.26: op grond van zijn systematische en efficiënte bevordering der ontwikkeling van de petroleumwinningstechniek en van het daartoe vereiste wetenschappelijk onderzoek. 1955.09.26, Prof.dr.ir. F.J. Faber, (Jaarb. 1955 blz. 97-100)

[44] **Th. von Kármán**

1956.07.05: op grond van zijn zeer uitstekende verdiensten op het gebied van de technische wetenschap in het algemeen en die op het terrein van de elasticiteitstheorie, de plasticiteitstheorie en de aero- en hydrodynamica in het bijzonder, alsmede op grond van de belangrijke bijdrage, die hij geleverd heeft tot de internationale samenwerking op dit wetenschapsgebied. *1956.09.17*, Prof.dr.ir. C.B. Biezeno, (Jaarb. 1956 blz. 81-92)

[45] **J.D. Cockroft**

1958.06.13: op grond van zijn zeer uitstekende verdiensten voor de zuivere en technische natuurkunde, meer in het bijzonder wat betreft de toepassingen van de kernenergie. *1959.01.10*, Prof.dr. R. Kronig, (Jaarb. 1959 blz. 79-85)

[46] **A. Bouwers**

1962.12.17: wegens zijn zeer uitstekende verdiensten voor de technische natuurkunde, meer in het bijzonder wat betreft de ontwikkeling van röntgenapparaten en optische instrumenten. *1963.01.12*, Prof.dr. A.C.S. van Heel, (Jaarb. 1963 blz. 63-72)

[47] **G.T. Rietveld**

1963.12.10: wegens zijn uitnemende verdiensten voor de vernieuwing van bouwen en meubelkunst, in het bijzonder voor de creatieve bijdragen tot de synthese van moderne techniek, ruimtelijkheid en vorm. *1964.01.11*, Prof.ir. J.H. van den Broek, (Jaarb. 1964 blz. 61-71)

[48] **J.D. Fast**

1964.06.29: op grond van zijn uitstekende verdiensten op het gebied van wetenschappelijk en technisch metaalonderzoek. *1965.01.09*, Prof.dr. W.G. Burgers, (Jaarb. 1965 blz. 63-72)

[49] **J.G. van der Corput**

1965.06.21: op grond van zijn uitnemende verdiensten voor de wiskunde in het algemeen en in het bijzonder voor het aandeel in de verspreiding van de nieuwe inzichten omtrent haar maatschappelijke betekenis. *1966.01.10*, Prof.dr. S.C. van Veen

[50] **J.P. den Hartog**

1966.06.27: op grond van zijn zeer uitstekende verdiensten voor de toepassing van de mechanica in de techniek, in het bijzonder op het gebied van de mechanische trillingen. *1967.01.14*, Prof.dr.ir. W.T. Koiter, (Jaarb. 1967)

[51] **G.H. Bast**

1966.06.27: op grond van zijn zeer uitstekende verdiensten voor de transmissie van informatie, in het bijzonder op het gebied van de draaggolftelefonie. *1967.01.14*, Prof.dr.ir. J.L. Bordewijk, (Jaarb. 1967)

[52] **J.M. Bijvoet**

1966.06.27: op grond van zijn zeer uitstekende verdiensten voor de ontwikkeling van de röntgen-structuuranalyse in Nederland. *1967.01.14*, Prof.dr. W.G. Burgers, (Jaarb. 1967)

[53] **E.J.W. Verwey**

1966.06.27: op grond van zijn zeer uitstekende verdiensten op het gebied van de wetenschappelijke beïnvloeding van de eigenschappen van de vaste stof ten behoeve van elektronische toepassingen. *1967.01.14*, Prof.dr. J.H. de Boer, (Jaarb. 1967)

[54] **Th.P. Tromp**

1967.12.11: wegens uitnemende verdiensten als technisch leider en organisator van een der grootste industrieën in ons land. 1968.01.13, Prof.ir. D.A.A. Koolen

[55] **A. Drijver**

1968.12.09: wegens zijn uitstekende verdiensten als ingenieur-ontwerper en als leider van de technische afdeling van een groot bedrijf. 1969.01.11, Prof.ir. G. Prins

[56] **K. Posthumus**

1969.12.08: wegens zijn zeer uitstekende verdiensten voor de ontwikkeling van de elektronische techniek. 1970.01.10, Prof. J.W. Alexander

[57] **B.D.H. Tellegen**

1969.12.08: wegens zijn zeer uitstekende verdiensten voor de ontwikkeling van de theorie der elektrische netwerken en van de elektronica. 1970.01.10, Prof.dr.ir. J.P. Schouten

[58] **D. Gabor**

1970.12.07: wegens zijn verdiensten voor de Technische Natuurkunde, in het bijzonder de optica van licht en elektronen. 1971.01.09, Prof.dr.ir. J.B. Le Poole

[59] **H. Rinia**

1970.12.07: wegens zijn verdiensten op grond van zijn multidisciplinair gerichte inventiviteit waarmee hij door toepassing van de natuurwetenschappen heeft bijgedragen tot belangrijke ontwikkelingen van de technische wetenschappen, in het bijzonder in die van de werktuigbouwkunde. 1971.01.09, Prof.ir. H. Blok

[60] **W. van Tijen**

1972.12.04: wegens zeer uitstekende verdiensten op het gebied van de vernieuwing van de woningbouw. 1972.01.12, Prof.ir. M. Gout

[61] **J.J. Went**

1973.11.19: wegens zeer uitstekende verdiensten met betrekking tot het toepassen van uiteenlopende takken van de natuurkunde op vele gebieden van de techniek. 1974.01.11, Prof.dr.ir. J.B. Le Poole

[62] **H.C. van Meerten**

1973.11.19: wegens zeer uitstekende verdiensten als ingenieur-ontwerper en technisch-wetenschappelijk leider bij de ontwikkeling van vliegtuigen. 1975.01.10, Prof.ir. H. Wittenberg

[63] **W.M.J. Soete**

1975.12.01: wegens zeer uitstekende verdiensten ten aanzien van de ontwikkeling van de lastechniek in het bijzonder ter verhoging van de veiligheid van gelaste constructies. 1976.01.09, Prof. H.G. Geerlings

[64] **L. Schepers**

1976.11.15: op grond van zijn uitmuntende verdiensten voor de Nederlandse ingenieurswereld in de ruimste zin en voor de Delftse ingenieurswereld in het bijzonder. 1977.01.07, Prof.ir. H.J. de Wijs

[65] **G. Lorentzen**

1976.11.15: op grond van de algemene invloed van zijn werk op de ontwikkeling van de koeltechniek op wetenschappelijke basis alsmede van zijn invloed op verspreiding van deze kennis in internationaal verband met name naar de derde wereld. 1977.01.07, Prof.ir. A.L. Stolk

[66] **R.B. Bird**

1976.11.15: wegens zijn zeer uitstekende verdiensten op het gebied van de fysische transportverschijnselen in het algemeen en van de rheologie van macromoleculaire vloeistoffen in het bijzonder. *1977.01.07*, Prof.dr. H.R.K.N. Janeschitz-Kriegl

[67] **J. Bear**

1977.11.21: op grond van zijn wetenschappelijke verdiensten bij het ontwikkelen van de theorie over het stromen van vloeistoffen door poreuze grondlagen zoals zand en grind. *1978.01.13*, Prof.dr.ir. G. de Josselin de Jong

[68] **A. van Wijngaarden**

1978.11.20: op grond van zijn uitmuntende verdiensten voor de bevordering van de informatica. *1979.01.12*, Prof.dr.ir. W.L. van der Poel

[69] **W.F. Schut**

1981.12.14: op grond van zijn uitstekende verdiensten op het terrein van het bouwen en de gebouwde omgeving. *1982.01.21*, Prof.ir. H. Wiggerts

[70] **A. Horowitz**

1981.12.14: op grond van zijn verdiensten voor de ontwikkeling van de techniek en van de technische wetenschappen. *1982.01.21*, Prof.dr. D. de Jong

[71] **D.W. van Krevelen**

1983.11.28: op grond van zijn zeer uitstekende verdiensten op het gebied van de steenkooltechnologie en de polymeertechnologie, de fundamente van de chemische technologie. *1984.01.20*, Prof.drs. P.J. van den Berg

[72] **Suyono Sosrodarsono**

1984.10.11: op grond van zijn zeer uitstekende verdiensten terzake van de bevordering van de technische wetenschappen en de toepassing daarvan, met name door het scheppen van een voedingsbodan daarvoor door organisatorische, commerciële en leidinggevende activiteiten. *1985.01.25*, Prof.ir. H.J. Schoemaker

[73] **H.A. Ferguson**

1986.09.22: op grond van zijn uitstekende verdiensten voor de wetenschappelijke onderbouwing van het Deltaplan en de impulsen die daarvan zijn uitgegaan naar de betrokken technische wetenschappen. *1987.01.09*, Prof.ir. H. Wiggerts

[74] **W. Dekker**

1986.09.22: op grond van diens zeer uitstekende verdiensten op het gebied van leiding geven aan elektrotechnisch gerichte, industriële activiteiten vooral in Nederland en Europa en zijn creatieve bevordering van wetenschappelijk onderzoek en technische innovatie. *1987.01.09*, Prof.ir. H.R. van Nauta Lemke

[75] **G.J. Wormmeester**

1986.09.22: op grond van diens zeer uitstekende verdiensten als dynamisch leider en innovator bij de vormgeving en realisering van het containeroverslaggebeuren. *1987.01.09*, Prof.ir. G. Prins

[76] **Elbert L. Rutan**

1989.11.06: wegens zijn vernieuwende invloed op de vliegtuigontwikkeling door het tonen van uitzonderlijke vindingrijkheid, doelmatigheid en veelzijdigheid bij het ontwerpen, bouwen en beproeven van een groot aantal vliegtuigtypen. *1990.01.12*, Prof.ir. E. Torenbeek

[77] A.E. van Eyck

1989.11.06: op grond van uitzonderlijke verdiensten voor de ontwikkeling en vernieuwing van de architectuur en de stedenbouw, die gebaseerd is op zijn consistente cultuurfilosofie en zijn wortels vindt in een humanitaire integrale benadering van kunst, architectuur en stedenbouw. 1990.01.12, Prof.arch.HBO J. van Stigt

[78] A.R. Miedema

1990.10.15: op grond van zijn uitstekende verdiensten op het gebied van de fysica van metaallegeringen. 1991.01.11, Prof.dr.ir. A. van den Beukel, Prof.dr.ir. S. Radelaar

[79] Thomas B. Sheridan

1990.10.15: wegens zijn wezenlijke bijdrage in de ontwikkeling van de telerobotica en de menselijke supervisie van geautomatiseerde systemen. 1991.01.11, Prof.dr.ir. H.G. Stassen

[80] J.F. Agema

1991.08.26: op grond van zijn uitzonderlijke verdiensten op het gebied van het ontwerp en de bouw van grote waterbouwkundige werken in Nederland, en meer in het bijzonder zijn inzet voor het invoeren van probabilistische technieken en kwaliteitsborging in de waterbouw. 1992.01.22, Prof.ir. K. d'Angremond

[81] J.M.H. Levelt Sengers

1991.08.26: op grond van haar uitzonderlijke verdiensten op het gebied van de thermodynamische eigenschappen van enkelvoudige stoffen en mengsels, in het bijzonder nabij het kritische punt. 1992.01.22, Prof.dr.ir. J. de Swaan Arons

[82] Renzo Piano

1991.08.26: op grond van zijn uitzonderlijke verdiensten op het gebied van de ontwikkeling van de bouwkunst en daarbij zijn vindingrijk en evenwichtig gebruik van nieuwe technieken in het belang van mens, natuur en cultuur. 1992.01.22, Prof.ir. L.C.W.M. Röling

[83] J.V. Sengers

1991.08.26: op grond van zijn uitzonderlijke verdiensten op het gebied van experimenteel en theoretisch onderzoek van niet-evenwichtsverschijnselen in verdichte fluida alsmede de praktische toepassing daarvan. 1992.01.22, Prof.dr. J.J. van Loef

[84] P. Winsemius

1991.08.26: op grond van zijn uitzonderlijke verdiensten op het gebied van het uitdragen van een inzichtelijke systematiek en het uitvoeren van een oplossingsgerichte aanpak van de milieuproblematiek. 1992.01.22, Prof.ir. H.P. van Heel

[85] W.H. Crouwel

1993.09.13: op grond van zijn uitzonderlijke verdiensten op het gebied van het grafisch en ruimtelijk ontwerpen, in het bijzonder wegens zijn heldere en zakelijke stijl en de oorspronkelijke wijze waarop hij gebruik maakt van nieuwe technieken, en zijn vermogen om een groot en gevarieerd publiek te boeien en te inspireren. 1994.01.07, Prof.dr.ir. R. den Buurman

[86] J.W. Geus

1995.10.23: op grond van zijn uitzonderlijke verdiensten op het gebied van de heterogene katalyse en meer in het bijzonder voor zijn innovatieve bijdragen aan duurzame ontwikkeling in de chemische procesindustrie. 1996.01.05, Prof.dr. J. Schoonman

[87] Santiago Calatrava Valls

1996.09.23: op grond van zijn uitzonderlijke culturele en vaktechnische verdiensten op het gebied van de bouwkunst, en meer in het bijzonder voor de creatieve aanpak waarmee hij als architect, ingenieur en vormgever de synthese van wetenschap, technologie en kunst in zijn ontwerpen weet te realiseren. *1997.01.10*, Prof. C.G. Dam

[88] Neville John Hogan

1996.09.23: op grond van zijn uitzonderlijke verdiensten op het gebied van de biomechanica en meer in het bijzonder zijn grote bijdrage aan de beschrijving van de besturing van het spierskelet-stelstel ten behoeve van de revalidatietechniek. *1997.01.10*, Prof.dr.ir. H.G. Stassen

[89] Byron D. Tapley

1997.08.25: op grond van zijn uitzonderlijke verdiensten op het gebied van de astrodynamica en het gebruik van satellieten voor geodetisch, geofysisch en oceanografisch onderzoek, in het bijzonder voor zijn vele initiatieven tot het realiseren van nieuwe satellietmissies, en zijn vermogen om jonge wetenschappers te inspireren. *1998.01.09*, Prof.ir. K.F. Wakker

[90] Gerrit Blom

1997.08.25: op grond van zijn uitzonderlijke verdiensten op het gebied van het integraal waterbeheer en de bestrijding van verontreiniging van het oppervlaktewater; alsmede wegens de wijze waarop hij heeft bijgedragen aan het behoud van unieke kennis en ervaring bij de Rijkswaterstaat. *1998.01.09*, Prof.ir. K. d'Angremont

[91] Else Kooi

1999.08.25: op grond van zijn uitzonderlijke verdiensten op het gebied van de micro-elektronica, alsmede wegens de unieke wijze waarop hij het vakgebied stimuleert en zijn kennis en ervaring overdraagt. *2000.01.07*, Prof.dr. C.I.M. Beenakker

[92] Cornelis le Pair

1999.08.25: op grond van zijn initiatief om de Technologiestichting STW op te richten, en zijn uitzonderlijke verdiensten op het gebied van het stimuleren van technisch-wetenschappelijk onderzoek aan de Nederlandse universiteiten en het betrekken van het bedrijfsleven bij dat onderzoek. *2000.01.07*, Prof.ir. K.F. Wakker

[93] Peter Alfred Ziegler

2000.06.21: op grond van zijn uitzonderlijke verdiensten op het gebied van toegepaste geologie, beoefend in een hecht samenwerkingsverband tussen industrie en universiteit. *2001.01.05*, Prof.dr.ir. J.T. Fokkema

[94] Floris Takens

2000.06.21: op grond van zijn uitzonderlijke verdiensten op het gebied van de wiskunde, in het bijzonder dat van de dynamische systemen, en haar toepassingen in de technische wetenschappen. *2001.01.05*, Prof.dr. J.M. Aarts