
Propositions

1. The fatigue loading on composite marine propellers creates internal micro cracks which result in local stiffness reduction of about 10% after several days in transit conditions. (This thesis)
2. Manoeuvring amplifies the fatigue loading and hence brings more stiffness reduction to the propellers. (This thesis)
3. The effect of full lifetime operation on composite marine propellers is unknown yet.
4. Embedded sensors enable self-monitoring of composite marine propellers and therefore reduce uncertainty associated with effects of full lifetime operation. (This thesis)
5. Piezoelectrical sensors do not impair the structural integrity of composite marine propellers when embedded in tension dominated areas. (This thesis)
6. Taking full advantage of noise in data requires more creativity than that of the primary data.
7. Your self-motivation is like an engine and your supervisor's support is like the air, which is invisible but indispensable for flying high.
8. Life span is the only limitation which stops one from learning knowledge accumulated in the past; accordingly, creativity becomes more difficult.
9. Accessing limitless information strengthens prejudices.
10. Keeping balance between social and solitude time is the only way to well live a life.

These propositions are regarded as opposable and defensible, and have been approved as such by the promoters prof.dr.ir. M.L. Kaminski and dr. L. Pahlavan.