



Delft University of Technology

Modelling adhesion and friction in contact problems

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DOI

[10.4233/uuid:d53f2842-480c-4cf2-b8c7-cbaf157d4398](https://doi.org/10.4233/uuid:d53f2842-480c-4cf2-b8c7-cbaf157d4398)

Publication date

2019

Document Version

Final published version

Citation (APA)

Khajeh Salehani, M. (2019). *Modelling adhesion and friction in contact problems*. [Dissertation (TU Delft), Delft University of Technology]. <https://doi.org/10.4233/uuid:d53f2842-480c-4cf2-b8c7-cbaf157d4398>

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Propositions

accompanying the dissertation

MODELLING ADHESION AND FRICTION IN CONTACT PROBLEMS

by

Mohsen KHAJEH SALEHANI

1. Under both single-mode and mixed-mode contact loading, both normal and tangential relative displacement can occur at the interface. (This dissertation)
2. The linearity between contact area and normal load breaks down in adhesive contact problems. (This dissertation)
3. Whether the reattachment is partial or full during sliding of adhesive contacts depends on friction: The lower the friction, the more complete the reattachment. (This dissertation).
4. High temperature molecular dynamics simulation is an example of anti-fragility.
5. Even a double-blind process will not eliminate the possible prejudice in the peer-review process.
6. Privacy and advances in technology are inversely proportional.
7. The biggest advantage of a computer over a human brain is an on/off button.
8. Between these words: human, woman, and man, only the first one is necessary.
9. There is no such thing as an easy path to success. If it was easy for you, you have been placed wrongly: either by yourself or by others.
10. You are well integrated into Dutch society if you use your bike when it is windy and rainy at the same time.