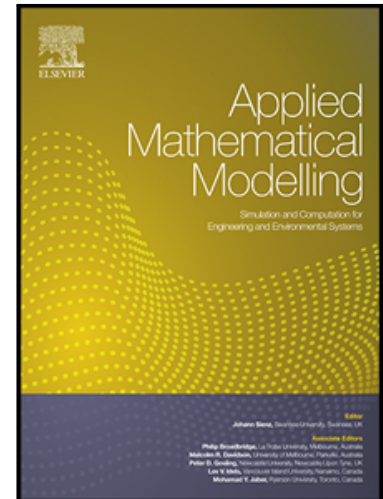


Accepted Manuscript

Modelling the static stress-strain state around the fan-structure in the shear rupture head

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PII: S0307-904X(18)30032-5
DOI: [10.1016/j.apm.2018.01.020](https://doi.org/10.1016/j.apm.2018.01.020)
Reference: APM 12136



To appear in: *Applied Mathematical Modelling*

Received date: 10 May 2017
Revised date: 29 December 2017
Accepted date: 15 January 2018

Please cite this article as: Boris G. Tarasov, Vladimir M. Sadovskii, Oxana V. Sadovskaya, Mark J. Cassidy, Mark F. Randolph, Modelling the static stress-strain state around the fan-structure in the shear rupture head, *Applied Mathematical Modelling* (2018), doi: [10.1016/j.apm.2018.01.020](https://doi.org/10.1016/j.apm.2018.01.020)

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Highlights

- Mathematical model of an equilibrium fan between elastic half-planes is constructed.
- Length of the fan is evaluated based on the singular solution for edge dislocation.
- Potential mechanisms of fan-structure formation in a fault are considered.
- Original method of superposition of dislocations is suggested.
- Fields of stresses and displacements around the fan-structure are computed.

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