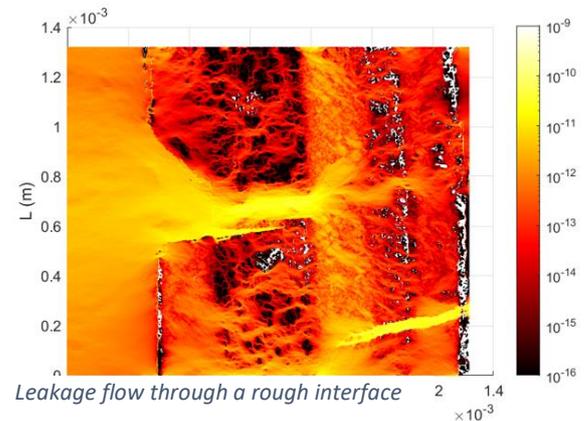


MSc Assignment

Modelling the leakage flow through a rough sealing interface

Approach

Sealing and leakage are important interfacial properties in many applications. In a rough interface, typically a contact between a harder metal and a softer polymer, a fluid typically flows in between the gaps between contacting asperities. At the left an example calculation of a previous master student is visible. This project is about extending the current model as well as experimental validation if the time allows.

**Research group & Company**

The **Surface Technology and Tribology** (STT) group will organize the research with a focus on surfaces and interfaces in an engineering context, as well as degradation mechanisms occurring at these surfaces and interfaces. This master assignment is an internal assignment

We offer:

- Work in a challenging, international and multidisciplinary environment.
- Work with all kinds of state of the art equipment

Tasks:

- Literature survey
- Developing a numerical model
- Analyzing and discussing the obtained results
- Writing a scientific report

Contact:

For more information about this assignment contact prof. Matthijn de Rooij: m.b.derooij@utwente.nl

