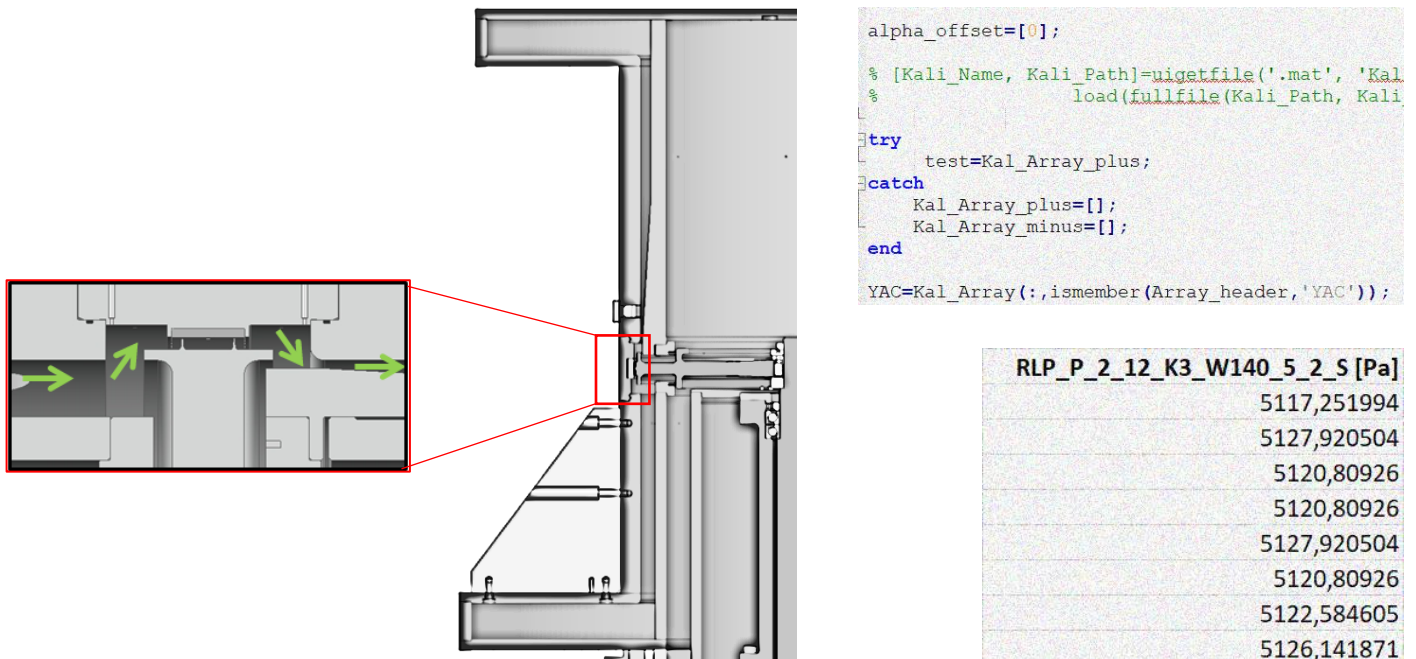


Student Assistant

Post-Process of Labyrinth Seal Test Rig Experiments



Background

In low pressure turbines of modern aircraft engines, the rotor stages are provided with a shroud for aerodynamic and structural reasons. The shroud creates a cavity between the rotor and the stationary casing. The innovative design of cavities is a key aspect of increasing efficiency and reducing fuel consumption in modern engines.

TFD operates the rotating labyrinth test rig (RLP) to investigate such cavities. The RLP serves to aero engine companies and shapes the future of the shroud cavity design.

A lot of measurement data is created while performing the experiments which needs to be post-processed and evaluated. Post processing becomes time consuming when it is not automated.

A script and user interface are required to process and evaluate the data accurately and easily.

Your Profile

- Have good knowledge of MATLAB or Python
- Structured way of working
- Good command of English

Your tasks

- Familiarisation with the methods
- Creating MATLAB/Python scripts to automatize the post processing of the experimental results

Contact

Are you interested?

Oğuz Kirez, MSc

Gebäude 8141, Raum 311

E-Mail: kirez@tfd.uni-hannover.de

Telefon: 0511 762-4233