Automated Tests and Further Development of a Graphical User Interface in Matlab

Interdisciplinary Project (IDP)

Situation:
Wet-running multi-plate clutches are an important component of modern multi-stage and dual-clutch transmissions. Experimental examinations of wet-running clutches in brake and clutch test rigs are important topics of research at the Department of Machine Elements. At these test rigs extensive measurement data is recorded.

Objectives:
The scope of this thesis is the further development of a graphical user interface for the evaluation of measurement data recorded on multi-plate clutch and synchronizer test rigs. One goal is to modularize and simplify existing source code. Furthermore, tests for the automated verification of calculation routines should be developed and integrated into the existing code. A comprehensible documentation is mandatory.

Requirements:
- Experience with Matlab (GUI desirable)
- Self-initiative and independent working style
- Start: immediately

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