

Bachelor–/Master–Thesis



Department of Fluid Mechanics (PfS)
Institute of Mechanics

Univ.–Prof. Dr.–Ing. habil. Michael Breuer



HELMUT SCHMIDT
UNIVERSITÄT

Test-Platform for a CFD Program

FASTEST-3D is a CFD program, developed and used in many German universities (HSU Hamburg, TU Darmstadt, LSTM Erlangen, ...). In order to **ensure the quality of the code**, a **test-platform** composed of different **reference test cases** was developed. Thus, current developments can be checked based on experimental and numerical reference data.

As a part of the bachelor/master–thesis the student has to improve and extend this test-platform. New test cases have to be found in the literature, prepared and computed with FASTEST-3D. If they are interesting, they will be added to the test suite with appropriate data and flow visualizations. This work is a good starting point into the world of **modern CFD simulations** and its **quality control**.



Supervisor: Dr.–Ing. G. De Nayer

Contact: H 11 Raum 102, Tel. +49 40/6541-2250, denayer@hsu-hh.de

Begin: immediately