*Bachelor's Thesis*

MODAL ANALYSIS OF THE TUNNEL BORING MACHINE

Supervisor: M.Sc. Hoang Giang Bui

Background: Tunnel Boring Machine (TBM) is a compulsory part of the mechanized tunnel process. In this study, student will perform modal analysis of the TBM using modern and high performance software. Data from real tunnel project (Thessaloniki, Wehrhahn-Linie Düsseldorf) will be used to construct the model. The objective of the study is to investigate the modal frequency of the tunnel and its mode shape. By that, the frequency response of the TBM under dynamics loading can be revealed.
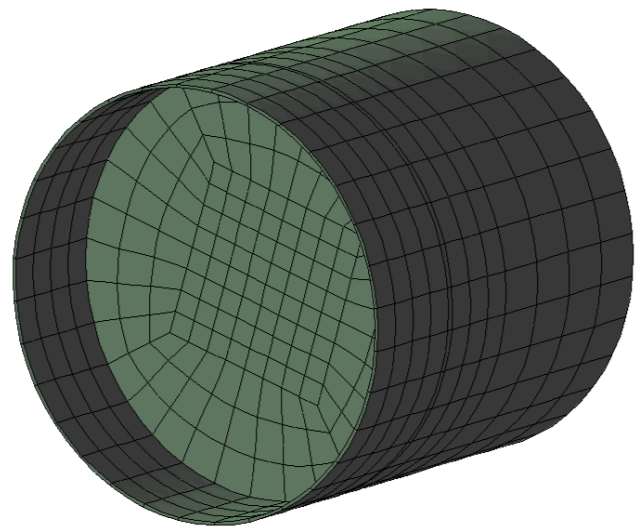
OS: Windows

Tools: Python, GiD, Abaqus, KRATOS

Language: German/English

Contact:

Bui, Hoang Giang
Room: IC 6/163
Lehrstuhl für Statik und Dynamik
Ruhr-Universität Bochum
Tel: 0234-32-29056
Email: giang.bui@rub.de