Thesis performed at ITB GmbH

Year	Author	Title
2023	Mayer-Ullmann, B.	Design and evaluation of light simulation models based on photometric measurements to determine the optical properties of control panels with disappearing effect
2023	Mahendrarajah, M.	Development of a calculation method for the transient analysis of a cable carriage under dynamic load
2022	Nalbant, M.	Parameterization and optimization of a light guide geometry with optical structural elements to increase the optical quality
2022	Mayland, R.	Development of a calculation method for the transient analysis of the braking process of an elevator
2022	Mayer-Ullmann, B.	Optimisation of selected components of a passenger lift on the basis of FEM for further development of a customer-specific product range
2021	Ben Othmane, H.	Induction Heating Process using the ANSYS® Maxwell and ANSYS® Mechanical Software and results verification using experimental test data
2020	Mahendrarajah, M.	Implementation and development of a workflow for the automated verification and documentation of the simulation software ANSYS® Workbench by analytically de-scribable mechanical models
2020	Deutz, Sabrina	Investigation of Metamodel-based Approaches for the Determination of the Mechanical Characteristics of Thermally Loaded Components of Turbine Housings
2020	Paquée, P.	Generating a Digital Twin Based on Sensor Technology, Simulations and Meta-Modelling in ANSYS, optiSLang and Statistics-on-Structures
2019	Hau, A.	Application of the Separating Morphing Adaptive and Remeshing Technology (SMART) for Fracture Mechanic Strength Assessment for Static and Cyclic Loading

2019	Erens, C.	Application of Optimization Methods to a Rigging Sling Considering Mechanical and Manufacturing Constraints
2016	Schulze Spüntrup, H.	Development of a Workflow for Robustness Evaluation of Design Life Values of Gas Turbine Casings Based on a Random Field Model Extracted from Geometry Variations
2014	Schulze Spüntrup, H.	Analysis of the Crack Tip Behaviour on Casing Components of Turbines under Predominantly Thermal Loading using the Finite Element Method (Bachelor-Thesis)
2012	Gabriel, Ph.	Determination and Evaluation of the Local Stress State of Bolted Connections
2011	Krajewski, F.	Simulation of the Forming Process by Example of an Anchor Bolt
2011	Pietsch, Chr.	Explicit Simulation of the Dynamic Behaviour of an Elastomeric Washer Bellow using LS-Dyna
2009	Ternes, V.	Structure Mechanical Optimization of a Flywheel for an Automatic Clutch
2006	Weichold, T.	Simulation of Roll Forming by explicit Finite Elements
2005	Enns, A.	Simulation of the Dynamic Behaviour of a Crash-Box