

# BIWE-06: Safety Concepts (lecturer: Prof. Reuter)

## Contents

Safety of structures, forecast and assessment of risk, limit states and failure of structures

Concepts for description of uncertainty and safety

Level 3-Analysis

- stochastic concepts for assessing the safety of structures
- integral formulas for failure probability

Level 2-Analysis

- approximation methods for the computation of failure probability
- safety index
- reliability theory first and second order

Level 1-Analysis

- semi-probabilistic safety concepts
- partial safety factors
- application of standards

Time series and load processes

Model based and model free calculation methods