

## EINLADUNG ZUM VORTRAG

# Dynamic Analysis and Design of Reinforced Concrete Structures: High-rate and Low-rate Loading Applications

by

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In this work we present the summary of recent research activities in dynamic analysis and design of structures built of reinforced concrete. Both high-rate and low-rate loading excitation cases are studied. Two particular examples of this kind are presented in detail. The first concerns the impact of the large commercial aircraft on the reinforced concrete building, whereas the latter concerns the case of earthquake excitation. A number of modeling issues is addressed, related to both refine model construction, as well as the model reduction as the means to building a more efficient computational strategy for a complex structure.

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