

Structural analysis

Session organizers

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Description

This session aims to present and discuss investigations in structural analysis and design, using numerical methods that may be associated with theoretical and experimental developments.

The scope is broad and includes studies of vibration problems and discrete and continuous systems subjected to static or dynamic loads.

Topics of interest:

Structures of different types: beams, columns, frames, arches, plates, shells.

Structures of various materials, (homogeneous and composite materials): steel, reinforced or prestressed concrete, mixed structures, composite structures

Structures subjected to: vibrations, static and dynamic loads: wind, earthquake, impact,...

Procedures for structural design

Damage assessment and structural reliability.