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Research activities

Computational Dynamics and Energy (CODEN) research group of TUC main expertise is the development and application of advanced simulation techniques and computational methods for structures and infrastructures (buildings, geostuctures, lifelines, etc). Research interests of CODEN group include structural and geotechnical earthquake engineering, soil-structure interaction, structural optimization, probabilistic mechanics, structural integrity assessment & monitoring, mitigation of geohazards, life-cycle analysis & performance-based design, artificial intelligence methods in engineering, etc. CODEN group has many cooperations with other scientific groups in Greece and abroad (USA, UK, Italy, Germany, France, Serbia, Japan, etc) and has participated in national and international projects.

CODEN group has given special emphasis on various earthquake engineering applications for buildings, infrastructure and energy. Protection of the environment, population and energy infrastructures (transportation networks, pipelines, plants, tanks, etc) from natural and man-made disasters. Indicative research fields: a) design of onshore and offshore gas pipelines against geohazards (active faults, landslides, soil liquefaction, etc), b) seismic design of liquid fuel tanks and storage terminals, c) onshore and offshore wind turbine design with emphasis on dynamic soil-structure interaction, d) seismic vulnerability of dams, waste landfills, tailings dams, etc.
Lab Infrastructure

- Computer resources.
- Specialized finite element software.

Research projects