



- ## > Seismic Risk Evaluation and Dynamic Analysis of Structures

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- Finite element mathematical models for the study of dynamic interaction between a structure and its foundation.

- Appraisal of liquefaction phenomena.

[> Physical Hydraulic Models](#)

- Definition of the hydraulic design features worth to be analyzed through physical models.

- Preparation of technical specifications and planning of tests.

- Assistance during tests, analysis and interpretation of results.

[> Mathematical Models](#)

- Finite element models (FEM) to calculate distribution of stresses in the structures, in the corresponding foundations and in the rock masses.

- Finite element models for the static and dynamic analysis of loose material dams and underground works, adopting different behavior laws for soils and rocks.

- Finite difference and finite element models for the analysis of seepage and consolidation problems.

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