

Seismic hazard, seismic vulnerability and seismic risk

A probabilistic approach for seismic risk assessment based on vulnerability functions. Application to Barcelona

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In order to increase the seismic resilience in urban zones, it is necessary to perform the following three assessments: 1) assessment of seismic hazard; 2) assessment of seismic vulnerability and; 3) assessment of seismic risk.

Summary

This research line has been mainly developed with the collaboration of members of a multidisciplinary team: Josep de la Puente, Armando Aguilar, Marisol Monterrubio, Otilio Rojas, and Octavio Castillo.

Objectives

Contribute to increase the knowledge about methodologies and data associated to the assessment of seismic hazard, seismic vulnerability and seismic risk.

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