

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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Bulletin of Earthquake Engineering
Official Publication of the European
Association for Earthquake Engineering

ISSN 1570-761X

Bull Earthquake Eng

DOI 10.1007/s10518-018-0516-4



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.

Source URL (retrieved on 10 oct 2024 - 05:59): <https://www.bsc.es/ca/research-development/research-areas/geophysics/seismic-hazard-seismic-vulnerability-and-seismic-risk>