



# Earthquake Risk Reduction

*David J. Dowrick*

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## **Earthquake Risk Reduction** David J. Dowrick


Encompassing theory and field experience, this book covers all the main subject areas in earthquake risk reduction, ranging from geology, seismology, structural and soil dynamics to hazard and risk assessment, risk management and planning, engineering and the architectural design of new structures and equipment.

### *Earthquake Risk Reduction*

- outlines individual national weaknesses that contribute to earthquake risk to people and property;
- calculates the seismic response of soils and structures, using the structural continuum 'Subsoil - Substructure - Superstructure - Non-structure';
- evaluates the effectiveness of given designs and construction procedures for reducing casualties and financial losses;
- provides guidance on the key issue of choice of structural form;
- presents earthquake resistant designs methods for the four main structural materials - steel, concrete, reinforced masonry and timber - as well as for services equipment, plant and non-structural architectural components;
- contains a chapter devoted to problems involved in improving (retrofitting) the existing built environment.

Compiled from the author's extensive professional experience in earthquake engineering, this key text provides an excellent treatment of the complex multidisciplinary process of earthquake risk reduction. This book will prove an invaluable reference and guiding tool to practicing civil and structural engineers and architects, researchers and postgraduate students in seismology, local governments and risk management officials.

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