



Earthquakes and Engineers

An International History

Robert K. Reitherman, M.Arch.

Earthquakes and Engineers: An International History is the first comprehensive treatment of the engineering techniques devised around the world to address seismic problems. Beginning in ancient times, threading through the Renaissance, and continuing into the latter half of the 20th century, Reitherman traces the evolution of humankind's understanding of the cause and characteristics of earthquakes and the development of methods to design structures that resist seismic shocks. This book examines the responses not only of structural engineers, but also of geotechnical engineers, architects, and planners. International efforts in such countries as Japan, China, India, Chile, Turkey, Italy, and the United States are placed in the broader social, technological, and economic contexts of their eras.

This highly readable book is an essential reference for civil engineers who work on projects in seismic regions. For researchers in the field of the history of science and technology, the book presents original source material and an extensive list of references. Written in a straightforward style that is accessible to nonengineers, it will also be valuable to architects, planners, officials, and social scientists.

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An earthquake (also known as a quake, tremor or temblor) is the shaking of the surface of the Earth, resulting from the sudden release of energy in the Earth's lithosphere that creates seismic waves. Earthquakes can range in size from those that are so weak that they cannot be felt to those violent enough to toss people around and destroy whole cities. The seismicity, or seismic activity, of an area is the frequency, type and size of earthquakes experienced over a period of time. The word tremor is Probabilistic methods in: seismology, geotechnical earthquake engineering; risk analysis; earthquake engineering reliability; interaction problems; soil structure interaction and fluid-soil interaction; instrumentation and experimental methods; inelastic and nonlinear problems; finite element analysis in dynamics and elastodynamics; earthquake case histories; tsunamis. Earth Sciences & Geography - Environmental Science & Engineering | Earthquake Engineering and Engineering Vibration. Environmental Science & Engineering. Home > Earth Sciences & Geography > Environmental Science & Engineering.Â Editors-in-Chief: X.Z. Qi; G.C. Lee. ISSN: 1671-3664 (print version) ISSN: 1993-503X (electronic version).