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Fundamental Concepts Of Earthquake Engineering

Fundamental Concepts of Earthquake Engineering presents the concepts, procedures, and code provisions that are currently being used to make structures as earthquake-resistant as is presently feasible.

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Fundamental concepts of earthquake engineering

Fundamentals of Earthquake Engg Roberto Villaverde | Kok Hong Chiang - Academia.edu Preface Earthquake engineering is a relatively new discipline. Not long ago, earthquakes were believed to be acts of God, and mitigation measures consisted mainly of prayers rather than the application of scientific and engineering principles.

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Fundamentals of Earthquake Engineering combines aspects of engineering seismology, structural and geotechnical earthquake engineering to assemble the vital components required for a deep understanding of response of structures to earthquake ground motion, from the seismic source to the evaluation of actions and deformation required for design.

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enormous spread or uncertainty in the earthquake excitation and the ignorance about actual structural capacity, the authors advise that earthquake resistant design should be based on the theory of probability and optimization techniques. The concepts of optimization, load factors and factors of safety are discussed in a

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Basic concepts of the earthquake engineering, implemented in the major building codes, assume that a building should survive a rare, very severe earthquake by sustaining significant damage but without globally collapsing. On the other hand, it should remain operational for more frequent, but less severe seismic events.

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