

Elements Of Earthquake Engineering

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Aims of Earthquake Engineering. Earthquake engineering is the science of the performance of buildings and structures when subjected to seismic loading. It also assists analysing the interaction between civil infrastructure and the ground, including the consequences of earthquakes on structures. One of the most important aims of earthquake engineering is the proper design and construction of buildings in accordance with building codes, so as to minimize damage due to earthquakes.

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Earthquakes are sometimes accompanied by water impact loadings resulting from tsunami, collapse of neighboring structures and liquefaction of ground, or fire. Today, new structures in earthquake sensitive areas are designed to sustain earthquakes without danger of damage or collapse.

Earthquake Engineering | DIANA FEA

Introduction to Earthquake Engineering. Chapter 1: Seismology; Chapter 2: Strong Motion and Estimation of Seismic Hazard; Chapter 3: Dynamics of Earthquake Analysis; Chapter 4: Response Spectrum Method; Chapter 5 : Response Analysis for Multi Support Earthquake Excitation ; Chapter 6 : Seismic Soil-Structure Interaction

NPTEL :: Civil Engineering - Introduction to Earthquake ...

Elements of Earthquake Engineering and Structural Dynamics was written to fill the gap. It presents the key elements of earthquake engineering and structural dynamics at an introductory level and gives readers the basic knowledge they need to apply the seismic provisions contained in Canadian and American building codes."--R sum  de l' diteur.

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A structure may be considered serviceable if it is able to fulfill its operationalfunctions for which it was designed.Basic concepts of the earthquake engineering, implemented in the major building codes, assume that abuilding should survive a rare, very severe earthquake by sustaining significant damage but withoutglobally collapsing. O

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Elements Of Earthquake Engineering

Fundamentals of Earthquake Engineering includes material on the nature of earthquake sources and mechanisms, various methods for the characterization of earthquake input motion, damage observed in reconnaissance missions, modeling of structures for the purposes of response simulation, definition of performance limit states, structural and architectural systems for optimal seismic response, and action and deformation quantities suitable for design. The accompanying website at www.wiley.com/go ...

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