

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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Earthquake Engineering covers the basics of Earthquakes and Seismology, along with History of Earthquakes in India and several Seismic Zones. To study earthquakes, mathematically, it becomes evident to learn about Vibrations and Damping. We also discuss Forces related to Earthquakes and their Effect on Different Systems.

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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

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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."--Résumé de l'éditeur.

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A structure may be considered serviceable if it is able to fulfill its operational functions for which it was designed. 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. O

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