

Elements Of Earthquake Engineering

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Basic Elements of Earthquake Engineering is the first comprehensive examination of earthquake engineering, lending balance and coherence to a subject too often approached in pieces. Based on sound theoretical concepts and practical design considerations, the book covers the analysis and design of structures, systems, and components that can resist earthquake ground motions.

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Definition of Earthquake Engineering: An earthquake is a sudden

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slipping or movement of a portion of the Earth's crust or plates, caused by a sudden release of stresses. Earthquake epicenters are usually less than 25 miles below the Earth's surface and are accompanied and followed by a series of vibrations.

Earthquake and Earthquake Engineering

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Aims of Earthquake Engineering. Earthquake engineering is the science of the performance of buildings and structures when

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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.

What is Earthquake Engineering? An Introduction to its ...

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There is a growing interest in the process of designing civil

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engineering structures capable to withstand dynamic loads, particularly, earthquake-induced load. There are a number of factors that influence the earthquake resistant design of structure such as structural configuration, lateral stiffness, lateral strength and ductility, in addition to form, aesthetics, functionality and comfort of the building.

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earthquakes have led to an expansion of its scope to encompass disciplines from the wider field of civilengineering and from the social sciences, especially sociology, political sciences, economics and finance. The main objectives of earthquake engineering are: Foresee the potential consequences of strong earthquakes on urban areas and civil infrastructure. Design, construct and maintain structures to perform at earthquake exposure up to the expectations and in compliance with building codes ...

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Earthquake engineering is an interdisciplinary field that is concerned with the structural analysis and study of large constructions such as buildings or bridges with the objective of making such structures more earthquake-resistant. This discipline also encompasses the study of the nature of seismic waves, their propagation, and control.

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