

Earthquake Resistant Design Of Structures Book By Pankaj

Guidelines for Earthquake Resistant Design of Structures

Earthquake Resistant Design of Structures | Duggal, S.K...

e Earthquake engineering is an interdisciplinary branch of engineering that designs and analyzes structures, such as buildings and bridges, with earthquakes in mind. Its overall goal is to make such structures more resistant to earthquakes.

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Earthquake-resistant or aseismic structures are designed to protect buildings to some or greater extent from earthquakes. While no structure can be entirely immune to damage from earthquakes, the goal of earthquake-resistant construction is to erect structures that fare better during seismic activity than their conventional counterparts. According to building codes, earthquake-resistant structures are intended to withstand the largest earthquake of a certain probability that is likely to occur a

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Synopsis. This comprehensive and well-organized book presents the concepts and principles of earthquake resistant design of structures in an easy-to-read style. The use of these principles helps in the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures.

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It has been assumed that the reader is well acquainted with structural analysis, structural dynamics, and structural design. The design of earthquake-resistant structures is an art as well as science. It is necessary to have an understanding of the manner in which a structure absorbs the energy transmitted to it during an earthquake.

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When designing earthquake safe structures the first consideration is to make the highest bit, the roof, as light as possible. This is best done with profiled steel cladding on light gauge steel Zed purlins. This can also have double skin with spacers and insulation. It can have a roof slope between 3 and 15 degrees.

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Earthquake resistant building design guidelines are provided by set of Indian Standard codes (IS Codes). After observing Indian earthquakes for several years Bureau of Indian Standard has divided the country into five zones depending upon the severity of earthquake. The role that codes of earthquake design structures play is of utmost important.

I.S Codes on Earthquake Resistant Building Design

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Earthquake-Resistant Structures features seismic design and retrofitting techniques for low and high raise buildings, single and multi-span bridges, dams and nuclear facilities. The author also compares and contrasts various seismic resistant techniques in USA, Russia, Japan, Turkey, India, China, New Zealand, and Pakistan.

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