

## Elements Of Earthquake Engineering

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Definition of Earthquake Engineering: An earthquake is a sudden 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.

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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

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