

2006 international building code structural seismic design manual volume 2 bu

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Seismic Design of Buildings**

What is Seismic Design of Building Structure?

Seismic design refers to the engineering principles and practices employed to ensure the safety and integrity of buildings during earthquakes. It involves the analysis of earthquake forces and the design of structural elements to resist these forces.

When to Consider Seismic Design?

Seismic design is essential for buildings located in regions prone to earthquakes. The seismic design category for a structure is determined based on its location, soil conditions, and other factors.

Seismic Design Codes and Standards

There are various building codes and standards that specify the requirements for seismic design, including:

- American Standard for Seismic Design: ASCE 7-16
- Building Code of India: IS 1893 (Part 1)
- British Standard for Seismic Design: BS EN 1998-1
- ACI Code for Seismic Design: ACI 318-14

Determining Seismic Design Category

The seismic design category for a structure is classified based on the following factors:

- Zone factor: A measure of the expected ground acceleration at the site
- Soil factor: Influence of soil conditions on earthquake forces
- Structural importance factor: Importance of the structure to human life and function

Seismic Zone Classification

Regions are classified into seismic zones based on historical seismic activity and anticipated earthquake intensity. Seismic zones are typically denoted by letters such as SS (very high), SD1 (high), SD2 (moderate), and SD3 (low).

Seismic Design Process

Seismic design involves:

- Identifying the seismic design category
- Analyzing earthquake forces
- Designing structural elements to resist these forces
- Providing additional features to enhance seismic performance

Anti-Seismic Building Codes

Anti-seismic building codes are regulations that specify the minimum requirements for seismic design. These codes aim to prevent or minimize damage to buildings during earthquakes.

Notable Seismic Codes and Standards

- ASCE 7-16: American Standard for Seismic Design
- IS 1893 (Part 1): Building Code of India
- BS EN 1998-1: British Standard for Seismic Design
- ACI 318-14: ACI Code for Seismic Design

- EN 1998-4: Eurocode 4: Design of composite steel and concrete structures - Part 4: Seismic design of composite steel and concrete buildings
- EN 1998-5: Eurocode 8: Design of structures for earthquake resistance - Part 5: Foundations, retaining structures and geotechnical aspects

Code 4326

Code 4326 is the Seismic Evaluation and Rehabilitation of Existing Buildings standard published by the International Code Council (ICC). It provides guidelines for assessing and upgrading the seismic performance of existing buildings.

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