



Seismic Design of Building Structures, 11th Ed

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Seismic Design of Building Structures

A Professional's Introduction to Earthquake Forces and Design Details

Eleventh Edition

Seismic Design of Building Structures presents the seismic design concepts most essential to engineers, architects, and students of civil and structural engineering and architecture. The book's 15 chapters provide a concise but thorough review of seismic theory, code application, design principles, and structural analysis. The 30 example problems demonstrate how to apply concepts, codes, and equations to solve realistic problems. More than 125 practice problems provide opportunities for independent problem-solving practice, and complete solutions allow you to check your solution approach.

This book includes two comprehensive indexes—one of key terms and another of seismic building codes—to quickly direct you to the information you are looking for. You can also locate related support material by following references throughout the text to the 150 equations, 29 tables, 144 figures, and 16 appendices, and to relevant codes and standards.

Topics Covered

- Basic Seismology
- Details of Seismic-Resistant Structures (Concrete, Masonry, Steel, Wood)
- Diaphragm Theory
- Earthquake Characteristics
- Effects of Earthquakes on Structures
- General Structural Design
- Response of Structures
- Seismic Building Code
- Special Design Features
- Tilt-Up Construction
- Vibration Theory

Referenced Codes and Standards

- ACI 318
- ACI 530
- AISC 341
- AISC 360
- ASCE/SEI7
- IBC
- NDS
- SDPWD

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