

Seismic Design of Building Structures, 10th Ed

By Michael R. Lindeburg PE, Kurt M. McMullin PE

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Seismic Design of Building Structures provides a comprehensive introduction to core seismic concepts and principles. It offers essential background information for seismic problems on the California Special Civil Seismic exam, the Structural Engineering (SE) exam, and the Architect Registration Examination (ARE). 15 chapters and 16 appendices provide a concise but thorough review of seismic theory, code application, design principles, and structural analysis.

A Comprehensive Review of Seismic Concepts and Principles

- A thorough review of seismic building codes
- Easy-to-use formulas, figures, and tables
- Detailed illustrations and definitions of seismic terminology
- 129 practice problems
- 34 example problems
- A complete index

What's New in the 10th Edition?

- Thoroughly updated for ACI 318-08, ACI 530-08, and IBC-09 seismic building codes
- Two indices—one for terms, figures, and tables, and one for codes used in the boo

Topics Covered

- Basic Seismology
- Diaphragm Theory
- Earthquake Characteristics
- Effects of Earthquakes on Structures
- General Structural Design
- Response of Structures
- Seismic Building Codes
- Seismic-Resistant Concrete Structures
- Seismic-Resistant Masonry Structures
- Seismic-Resistant Steel Structures
- Seismic-Resistant Wood Structures
- Special Design Features

- Tilt-Up Construction
- Vibration Theory

An Introduction to Seismic Design for the

- California Special Civil Seismic exam
- California Structural Engineer Seismic exam
- Civil PE exam
- Structural Engineering (SE) exam
- Architect Registration Examination (ARE)

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