



Seismic Design of Building Structures, 11th Ed

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

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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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Editorial Review

About the Author

About the Author

Michael R. Lindeburg, PE, is one of the best-known authors of engineering textbooks and references. His books and courses have influenced millions of engineers around the world. Since 1975, he has authored over 30 engineering reference and exam preparation books. He has spent thousands of hours teaching engineering to students and practicing engineers. He holds bachelor of science and master of science degrees in industrial engineering from Stanford University.

About the Contributor

Kurt M. McMullin, PhD, PE, is a professor of civil engineering at San Jose State University. Dr. McMullin holds master of science and doctorate degrees in civil engineering from the University of California at Berkeley. He has been published in many journals and his research interests involve the response of steel, concrete, and timber structures to earthquakes and other catastrophic events.

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How to Use This Book

If you are the type of person who never reads instructions, here are my “Quickstart” suggestions on how to get the most from *Seismic Design of Building Structures* during your exam preparation.

1. Get copies of the IBC and ASCE/SEI7 and their errata.
2. Start reading this book from the first chapter. Don’t skip around, because the book builds on concepts.
3. Read slowly; a page or two a day is plenty. Look up every code section in the referenced sources.
4. Work through all of the example and practice problems.
5. Put lots of tabs on the building code tables.
6. Use the indexes extensively.
7. Don’t forget to take it with you to your exam.

Now, beyond those suggestions, how you will use this book depends on why you obtained it. *Seismic Design* was specifically written for engineering exam review. As the exams vacillated each year between areas of emphasis, the scope and depth of this book also increased. And so, this book now covers a lot of bases, and it can be used for other exams (e.g., SE and ARE) and general familiarity. However, even though its scope and depth have increased enormously over the years, I suspect this book will remain typecast in its leading role—that of an engineering exam review book. Therefore, I am writing this section assuming that you are using *Seismic Design* for that purpose.

Although this book develops subjects gradually, gently, and linearly, it crams innumerable concepts onto every page. If you don't have a seismic background, you'll pretty much have to start at page one and work your way through the book, page by page. I don't assume that you know anything. I've skipped almost all of the higher-order mathematics. And I've tried to write and edit the material to provide instruction that is intuitive. However, you'll still need to go slowly.

Users Review

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