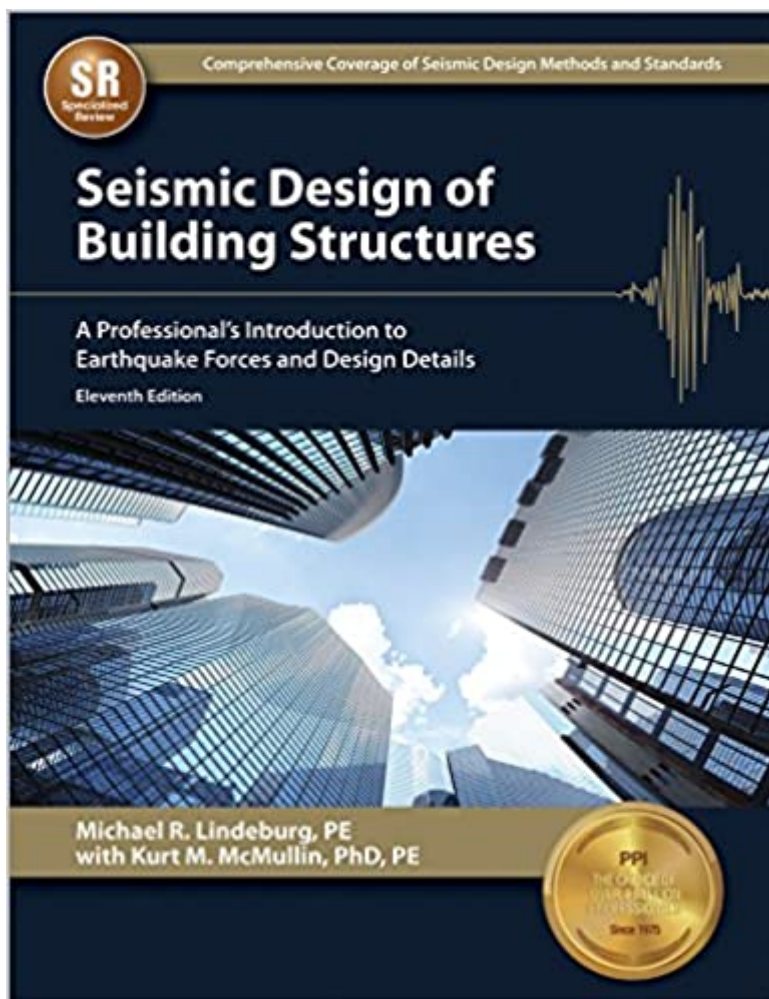


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# Seismic Design Of Building Structures, 11th Ed



## Synopsis

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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## Customer Reviews

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.

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.

As a practicing I have found Michael Lindeburg's book simply invaluable. It spans the lecture room

and the design office effortlessly. Reading the first three chapters was akin to a refresher course in tectonic geology. If I had to say something less charitable it would probably be the need for more connection and joint details to address the horrific shear generated at these points. Lastly, the cost. To me its a tax deductible, but to students on a tight budget it can be a nightmare, comparable to ground acceleration of 5 g's.

Clear, simple and to the point.

Interesting book. Convenient to both systems of measurement SI and USA, with resolved problems.

Very nice update to the old edition.

Great handbook with equations and explanations

As someone living in California and looking into renovating and building an additional room in the house, I was thoroughly interested in this book. Last year's earthquake was a reality check, and for days we experienced hundreds of aftershocks, even waking us up in the middle of the night. Reading this book gave me a better understanding of structural engineering and the basics of seismology, something I could discuss with our architect. It is a very thorough book that I have to admit, some chapters eluded me. A little background in engineering will make yo understand the concepts and a lay person with enough interest, like me, could find this book very useful. It is a reference I would definitely use in the process of our house renovation.

The Seismic Design of Building Structures (11th Ed), is a book published by the Professional Publications, Inc (PPI) as a specialized review manual and reference book for engineers or architects taking professional licensing exams. It is directed specifically at examinees taking the California Special Civil Seismic Principles Examination, the NCEES Structural Engineering Exam, and the Architect Registration Exam. The book is written by Michael Lindeburg and Kurt McMullin. Michael Lindeburg is also the author of the highly popular and incredibly useful Civil Engineering Reference Manual for the PE Exam, an indispensable tool for the Civil Professional Engineering Exam in its own right. The book's pedigree was very encouraging. The book is divided into 15 chapters that build successively on previous ones, beginning with the basic mechanics of earthquakes, adding ground acceleration spectra, earthquake effects on structures,

structural vibration theory, seismic response of buildings, then delves into building code issues, including special detailing requirements. There is also a chapter dedicated to diaphragm theory, which is a topic that is frequently not covered in general structural design textbooks. A number of appendices at the end include some useful tables selected from other reference manuals (such as the NDS wood design code and ASCE 7) as well as tables for proprietary metal connections for wood construction. Although the tables are helpful, it's important to know that they are incomplete--an examinee should have appropriate editions of ASCE 7 and the IBC in order to make full use of this book, both for reference/study and actually taking an examination. Throughout the chapters, a number of clear and concise figures are included to help the reader understand the concepts being presented. The book appears to be well written (for a textbook) and organized in a very logical fashion. It is, however, a broad overview of a wide array of topics pertaining to seismic design for buildings, with an emphasis on its use as a study aid and an exam tool. That is to say that a more in-depth book may be needed for use as a practicing engineer, but this book does an excellent job of packing in a large amount of useful information in a handy package. Although I have not used this particular book for PE exam preparation, I can't say enough good things about Mr. Lindeberg's Civil Engineering Reference Manual, and would expect this book to be just as useful for the California exam or Structural PE exam. It is important to note that this is a building-specific book, so another reference would be needed for those planning to take the Structural PE exam with an emphasis in bridges.

This is text specifically tailored for anyone who will be taking the California Special Civil Seismic Principles Examination; nonetheless, it can also be a valuable resource for anyone preparing for the NCEES: SE exam. The first four chapters address the basics of earthquakes and vibration theory. For many, this will be a basic review (but do not mistake "basic" for "wasteful." Many test-takers neglect to review the basics and find themselves faced with simple questions that they can no longer answer with assurance. So, please do review these sections with care). The chapters which follow address standard structural designs as well as seismic-resistant structures of various materials. There are numerous, invaluable examples and problems in each chapter. The solutions to each are provided in the back of the text (in detail). Of equal importance, each illustration/figure is abundantly clear (leaving no question as to its purpose or degree of value). The editor and publisher has done their due diligence (ensuring that all readers will genuinely benefit from this text). Of equal value are the appendices. This area is both extensive and phenomenal for fast reference. While the price of the text is somewhat daunting, this is considerably less expensive than an online review

course. Therefore, if one is self-motivated and talented (and anyone taking this exam, most assuredly, is), this text is a cost-efficient, (potentially) equally as beneficial alternative. Purchase this text and feel more confident/prepared for this exam. You will never regret it.

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