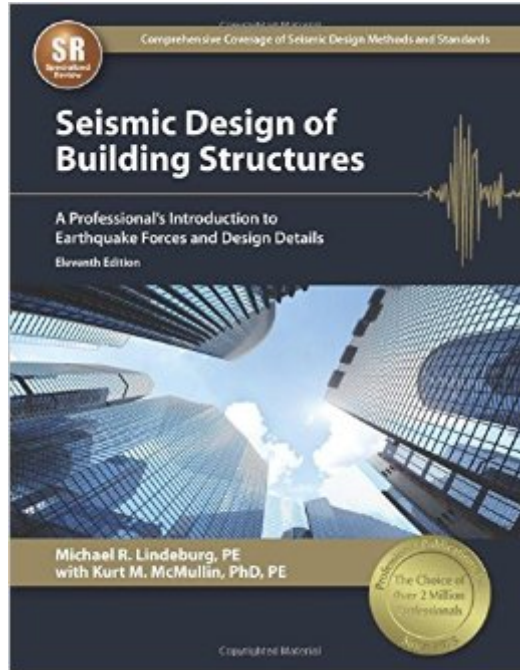The book was found

Seismic Design Of Building Structures, 11th Ed

Synopsis

Seismic Design of Building Structures A Professionalâ ™s Introduction to Earthquake Forces and Design Details Eleventh EditionSeismic Design of Building Structures presents the seismic design concepts most essential to engineers, architects, and students of civil and structural engineering and architecture. The bookâ ™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 indexesâ ”one of key terms and another of seismic building codesâ ”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 â ¢ Basic Seismology â ¢ Details of Seismic-Resistant StructuresÂ (Concrete, Masonry, Steel, Wood) â ¢ Diaphragm Theory â ¢ Earthquake Characteristics â ¢ Effects of Earthquakes on Structures â ¢ General Structural Design â ¢ Response of Structures â ¢ Seismic Building Code â ¢ Special Design Features â ¢ Tilt-Up Construction â ¢ Vibration Theory Referenced Codes and Standards â ¢ ACI 318 â ¢ ACI 530 â ¢ AISC 341 â ¢ AISC 360 â ¢ ASCE/SEI7 â ¢ IBC â ¢ NDS â ¢ SDPWD

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Customer Reviews

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.

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 it 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 thatthis is a building-specific book, so another reference would be neededfor those planning to take the Structural PE exam with an emphasis inbridges.

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 of 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.

You can't go too wrong using this book (but not JUST this book) to pass the California Civil Professional Engineering Exam. After buying this book you better get a ppi2pass account, as suggested in the book itself, which you'll need to access any errata. At this point in time, this 11th edition of SEISMIC DESIGN OF BUILDING STRUCTURES has no errata listed at the publisher's site.Ok, so why only 4 stars? You should probably get a (now out of print) copy of Steven Hiner'sÂ Seismic Design Review Workbook: For the California Civil Professional Engineering Examination. You'll need this (Lindeburg/McMullin) book because it's more up to date regarding codes, etc. than Hiner, but Hiner is gold.Also, take the author's advice and get copies of theÂ 2015 International Building CodeÂ (IBC) as well asÂ Minimum Design Loads for Buildings and Other Structures, 3rd Printing (Standard ASCE/SEI 7-10). You can't avoid referencing these two in the exam (and you probably already know that).After spending all that money on all of those, you BETTER pass the exam!Really hard to review books like this because their scope is so narrow and

focused. After all of that, this is actually pretty interesting material (assuming you don't have passing a PE Exam hanging like the sword of Damocles over your head). Lindeburg and McMullin's 11th edition of this book is unavoidably indispensable. I just wish Hiner would put out a new edition of his book!

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