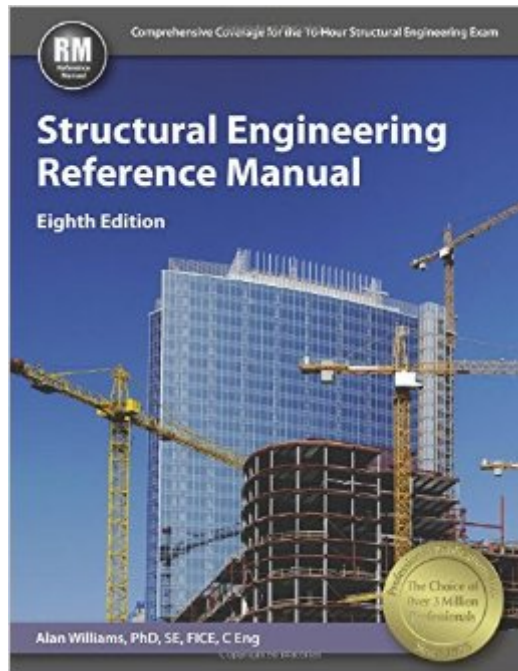


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# Structural Engineering Reference Manual, 8th Ed



## Synopsis

Comprehensive Coverage for the 16-Hour Structural Engineering Exam The Structural Engineering Reference Manual prepares you for the NCEES 16-hour Structural Engineering (SE) exam. It covers all exam topics and provides a comprehensive review of structural analysis and design methods. Exam-adopted codes and standards are frequently referenced, and solving methods—including strength design for timber and masonry—are thoroughly explained. You will learn how to apply concepts pertaining to vertical and lateral forces by reviewing the 244 example problems. You will also strengthen your problem-solving skills by working the 44 end-of-chapter practice problems. Each problem's complete solution lets you check your own solving approach. New for the 8th edition, both ASD and LRFD/SD solutions and explanations are provided for masonry problems, allowing you to familiarize yourself with different problem solving methods. Access to supportive information is just as important as knowledge and problem-solving efficiency. The Structural Engineering Reference Manual's thorough index easily directs you to the codes and concepts you will need during the exam. Cross references to more than 700 equations, 60 tables, 190 figures, 8 appendices, and relevant codes will point you to additional support material when you need it. • Topics covered Bridges Foundations and Retaining Structures Lateral Forces (Wind and Seismic) Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications (AASHTO) Building Code Requirements and Specification for Masonry Structures (TMS 402/602) Building Code Requirements for Structural Concrete (ACI 318) International Building Code (IBC) Minimum Design Loads for Buildings and Other Structures (ASCE 7) National Design Specification for Wood Construction ASD/LRFD and National Design Specification Supplement, Design Values for Wood Construction (NDS) North American Specification for the Design of Cold-Formed Steel Structural Members (AIS) PCI Design Handbook: Precast and Prestressed Concrete (PCI) Seismic Design Manual (AISC 327) Special Design Provisions for Wind and Seismic with Commentary (SDPWS) Steel Construction Manual (AISC 325)

## Book Information

Hardcover: 512 pages

Publisher: Professional Publications, Inc.; 8 edition (June 11, 2015)

Language: English

ISBN-10: 1591264960

ISBN-13: 978-1591264965

Product Dimensions: 8.5 x 1 x 11 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars Â Â See all reviewsÂ (11 customer reviews)

Best Sellers Rank: #81,863 in Books (See Top 100 in Books) #24 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #143 inÂ Books > Education & Teaching > Higher & Continuing Education > Test Preparation > Professional > Professional #388 inÂ Books > Education & Teaching > Studying & Workbooks > Study Guides

## Customer Reviews

I just took my exam 3 days ago so I wanted to write this review while it's still fresh in my mind.

Overall, this book is extremely helpful and well worth the money. If you don't know how to begin in studying for the SE exam, this book will get you started on the right track. This was my main study guide for the exam and got priority seating on the table during the examination. One of the first things Alan Williams tells you in this book is that an effective study session should take about 300 hours! This is no joke! The exam covers so much information that I don't know how you could do a thorough study session with any less. My main gripes with the book were related to the fact that there was no cold-formed steel review section and that the Bridge Section of the book was really skimpy. You could tell that this book really catered to building design. If you don't know the AASHTO code, this book will not suffice as a sole-source bridge study guide. It should have put more emphasis on live load distribution analysis. It also didn't even mention wind loads or stream load pressures on bridge piers, design or analysis of abutments or columns. Also, AASHTO has its own unique way of analyzing soil retaining structures which wasn't mentioned in this book. In actuality, the bridge section probably needed to be 3 times bigger than the book allotted for. Fortunately, I am a bridge engineer so I was familiar with all this stuff. I can only imagine what other people who don't know AASHTO were thinking.

I bought this to study for the SE Exam and read it cover to cover. I thought the material and format was great, except for the basic design. This book assumes you already know a great deal of information related to Structural Engineering. I also needed to buy additional books for review on Statics, Materials, Basic Design, Building Codes/ASCE 7-10 and Structural Analysis. When I failed the exam (barely) I signed up to take the PE Civil - Structural Exam. As part of my preparation for the exam I bought the Civil Engineering Reference Manual as a study guide and realized it (CERM) had more structural analysis information than the Structural Engineering Reference Manual!!! If only

PPI would combine the structural portion of the CERM into a new SERM it would give the structural guys a better chance at the SE exam. I am not sure if the same is true for other disciplines but I was very disappointed when I realized the waste of time and money I spent studying a book with only half the information (the SERM had some lateral concepts but no explanation of vertical). I also submitted six errors on the errata website until I got tired of filling out the online form. They need better reviewers when they update for code changes. It's difficult to understand a question when they reference the wrong information, I thought I was going crazy until I realized all the typos. If studying the take the SE, you may also need to buy the Civil Engineering Reference Manual as a resource for structural analysis I and II.

An excellent resource. I purchased as part of my study/resource kit for the civil PE exam: structural afternoon session. It pairs well with the CE Reference Manual, which also has a good structural section. It should be noted that the SERM does not have a lot of the statics/base level structural information that you might be looking for...the SERM assumes that you have a solid working knowledge of determinate and some indeterminate statics. If you don't, the CERM is a good resource to pair with the SERM.

Well designed text book that will answer all of your questions about Structural Engineering and the 16 hour exam that you will need to take if you are getting ready to take the test. I have an engineer in the family and one on his way(he is starting his studies this fall in this subject) so I was interested in the process about the exam itself and the type of questions that will be asked. Solid hard cover and well thought out-the best part I thought was how easy it was to find anything you wanted very quickly-very well referenced and set up. If you are planning on taking the exam I would definitely give this book a look-it will make it easier going into the test instead of going blindfolded like so many tests are. A definite must have!

This structural engineering manual is as thorough as it gets for anyone preparing to take the NCEES SE exam. My nephew is still about a year away from taking the exam but is already working his way through the problems presented in the manual. The manual is well indexed for easy reference to each section - bridges, foundations, etc. - although it's recommended you complete the sections in the order they are presented. This is a big, heavy book and the complexities of the problems can be intimidating at first but it definitely covers everything you need to know to adequately prepare for the SE exam. Just allow plenty of time to study and work through it.

This is a comprehensive manual for both learning and studying for the structural engineering exam. There are example problems including with this book, but it does not include the practice exam itself (that is a separate purchase). Book is very nice hard cover that should last through your studying and more. This is the 8th edition, updated on June 11, 2015. It is an expensive book but it is very comprehensive and is in the same cost range as the competing products by different publishers.

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