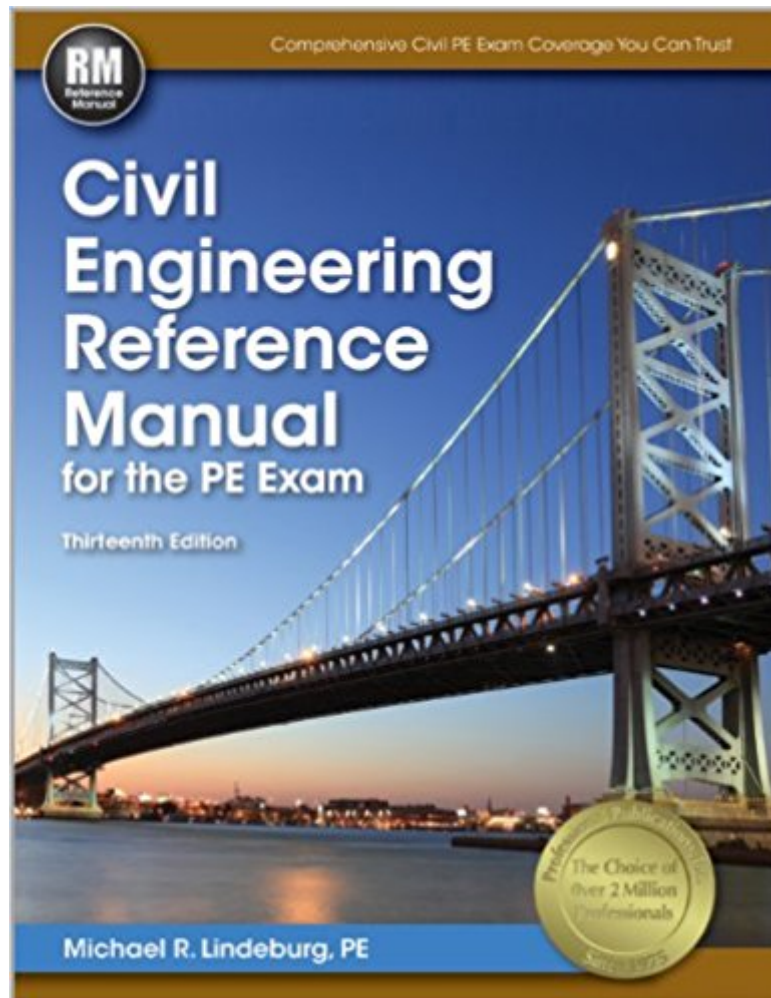




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Civil Engineering Reference Manual For The PE Exam, 13th Ed



Synopsis

The Civil Engineering Reference Manual provides a comprehensive review of all five NCEES Civil PE exam content areas: construction, geotechnical, structural, transportation, and water resources and environmental engineering. Over 500 example problems not only demonstrate how to apply important concepts and equations, they also include step-by-step solutions that show you the most efficient methods to use when solving exam problems. With more than 100 appendices from references and exam-adopted design standards it's possible to solve many exam problems using only the Civil Engineering Reference Manual.

Features of the Civil Engineering Reference Manual

- More than 500 example problems
- Over 400 defined engineering terms
- References to over 3,300 equations, 760 figures, and 500 tables
- Index includes cross-topic concepts
- Example problems use both SI and U.S. Customary units
- Consistent nomenclature in each chapter
- Coverage of both theory and practical applications
- Easy-to-read explanations
- Easy-to-use index and full glossary

Exam Topics Covered (used in main product description in Magento, and also in the separate "Topics Covered" field)

- Construction:** Earthwork construction and layout; material quality control and production; quantity and cost estimation; temporary structures; scheduling
- Geotechnical:** Earth and earth-retaining structures; shallow foundations; soil mechanics analysis; soils and materials properties; subsurface exploration and sampling
- Structural:** Loadings; analysis; materials and their mechanics; member design
- Transportation:** Geometric design
- Water Resources and Environmental:** Closed conduit and open channel hydraulics; hydrology; water and wastewater treatment

What's New in This Edition (used in main product description in Magento)

- Updated to current exam-adopted codes and standards for: AASHTO: AASHTO LRFD Bridge Design Specifications, 5th ed., 2010 ACI 318: Building Code Requirements for Structural Concrete, 2008 ACI 530: Building Code Requirements and Specification for Masonry Structures, 2008 IBC: International Building Code, 2009
- Modified concrete and masonry chapters to be consistent with NCEES' revised structural specifications
- Removed all ACI 318 App. C theory, equations, and examples to be consistent with NCEES requirement of exclusive use of ACI 318 unified strength methods
- Provided new content, including
- Added new chapter on highway bridge rating
- 31 chapters with revisions to existing materials
- 10 chapters with new material
- 51 revised equations
- 13 new equations
- 15 revised tables
- 2 new tables
- 19 revised examples
- 5 new examples
- 3 revised appendices
- 13 revised figures
- 6 new figures
- Added 130 new index entries to new and existing material

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Customer Reviews

This book was my primary reference on the CE-WR and Enviro exam. I used it for every practice problem I did in advance of the exam and tabbed out a few equations I was sure to see. For basically every question on the exam that I didn't already know the answer to, I read the question, then went straight to the index of this book to look up the subject and I almost always found the formula or answer. Even many of the conceptual questions, would often be solved with the glossary of this book. Each section starts with a list of all of the variables used in every equation and a description. Make sure to check this. This was very helpful. Oh- and the unit conversions on the inside cover were indispensable. Seriously, this book was my best friend during the exam. This book is not a review book. Do not use this book to teach yourself concepts. Don't "study" this book. It's not written that way. You'll become overwhelmed and find yourself spinning in circles. Just use it for all of your practice problems, and rely on other sources for detailed explanation of the topics. Added bonus: I think I put on some new muscle lugging this thing around everywhere for two months!

If you're reading these reviews then you probably already know you need this book for the PE exam, but you are probably wondering if you can get away using an older edition as opposed to the newest (and much more expensive) edition. The answer is yes. The principals of science and engineering do not change every year. You do not need the newest edition, save yourself some money. This was my primary resource for my WRE PE exam, I passed.

Very comprehensive manual. Easy to find information and very well explained and organized. I would recommend spending lots of time with this book. On my PE exam, I pretty much only used this manual for the morning and probably 40% of the time in the afternoon (Structural Section). I spend hours organizing color coded tabs in this book in order to make finding equations and tables easier and quicker. Definitely a must for anyone taking the PE exam!

This book was very well organized and extremely useful. If you are using it for the PE exam, start using it well before the exam in order to become familiar with it. The only thing I didn't like, is that sometimes it's difficult to determine what units to use in each formula. They are not always consistent. i.e. the formula will use MGD and MG/L with conversion factors then not explicitly state what units to use within the formula. I think the formulas provided are what is typically used within the discipline though. I'm just not familiar enough with each discipline to

I'm glad I bought this manual. I used it for a good portion of the PE exam. I would suggest anyone taking the PE get this manual and make sure to tab as much as you can. The book is laid out very well and subjects are easy to find.

This is best book to have for PE exam and just as importantly: as a reference for daily engineering practice!! I found that having an outdated edition was no big deal and worth the financial savings

This book was a lifesaver during the civil/structural PE exam, especially the morning civil portion of the exam which I was less familiar with. I continue to use it as a reference for my day-to-day design work after the exam.

The most thorough resource for your career. It is a bit overwhelming to use if your using it to prepare for the PE...don't read it page by page!

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