

# Download Civil Engineering Reference Manual for the PE Exam Online eBook

## Book details:

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**Format:** *1552 pages*

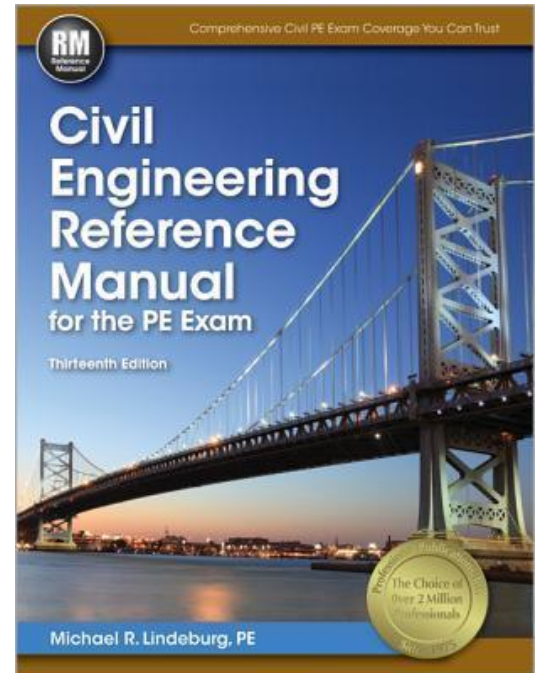
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## Book Synopsis:

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

### **Additional Information:**

Practice Exams for the Civil Pe Examination, Civil Engineering PE Practice Exams: Breadth and Depth, Civil PE Exam, Practice Exam for the Civil PE Exam, Water Resources Practice Problems, A Dictionary of Civil, Water Resources & Environmental Engineering, Mike's Civil PE Exam Guide, Six-Minute Solutions for Civil PE Exam: Construction Depth Problems