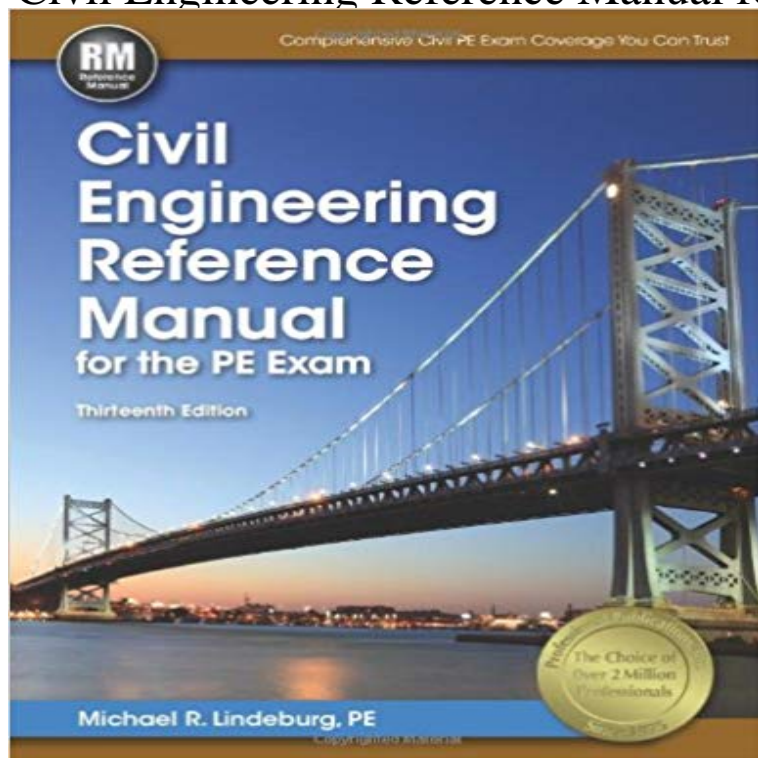


Civil Engineering Reference Manual for the PE Exam, 13th Ed



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

Whats 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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