



Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual

Michael R. Lindeburg PE

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Practice Problems for the Civil Engineering PE Exam contains 755 problems designed to help you identify important civil engineering topics and apply your knowledge to a variety of problems. Short, six-minute, multiple-choice problems demonstrate the format of the NCEES Civil PE exam and help you concentrate on a single subject. More complex problems combine several concepts, illustrate efficient and accurate solving methods, and familiarize you with the codes, standards, and references you'll need for the exam.

Solutions are clear, complete, and easy to follow. U.S. customary and SI units are equally supported, and units are meticulously identified and rigorously carried through all calculations. Where multiple methodologies (e.g., ASD and LRFD) are permitted by the exam, both solutions are presented in this book. Frequent references back to the *Civil Engineering Reference Manual* and the original codes and standards direct you to support material when you need it.

Prepare for the Civil PE Exam by Solving Problems—The More Problems, the Better

- Over 750 practice problems covering the topics, codes, and standards on the Civil PE exam
- More than 350 exam-like, multiple-choice practice problems
- Over 360 scenario-based and short answer problems
- Complete step-by-step solutions
- SI and U.S. Customary units used throughout
- Chapters that correspond to those in the *Civil Engineering Reference Manual*
- More than 130 tables and 530 figures

What's New in the 13th Edition

- Over 370 revised and/or updated practice problems including structural, transportation, and construction practice problems that reflect NCEES-adopted codes and standards
- More than 65 new practice problems
- Use of consistent nomenclature between chapters
- Over 80 revised and/or new figures
- More than 15 revised and/or new tables

Exam Topics Covered

- **Construction:** Earthwork Construction & Layout, Estimating Quantities & Costs, Construction Operations & Methods, Scheduling, Material Quality Control & Production, Temporary Structures, Worker Health, Safety, & Environment
- **Geotechnical:** Subsurface Exploration & Sampling, Engineering Properties of Soils & Materials, Soil Mechanics Analysis, Earth Structures, Shallow Foundations, Earth Retaining Structures, Deep Foundations
- **Structural:** Loadings, Analysis, Mechanics of Materials, Materials, Member Design, Design Criteria
- **Transportation:** Traffic Analysis, Geometric Design, Transportation Planning, Traffic Safety
- **Water Resources & Environmental:** Closed Conduit Hydraulics, Open Channel Hydraulics, Hydrology, Groundwater & Well Fields, Wastewater Treatment, Water Quality, Water Treatment, Engineering

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Mary Abrams:

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