



Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 13th Ed

By 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.

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- More than 65 new practice problems
- Use of consistent nomenclature between chapters
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- **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
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