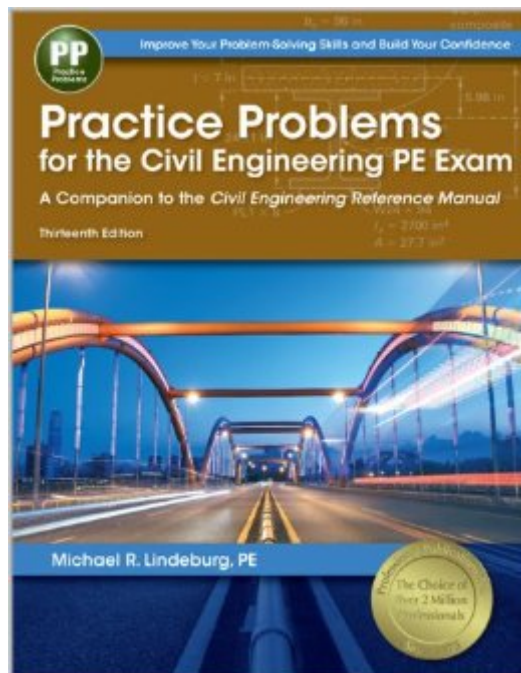


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# Practice Problems For The Civil Engineering PE Exam: A Companion To The Civil Engineering Reference Manual, 13th Ed



## Synopsis

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 Economics

## Book Information

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## Customer Reviews

If you were to work all the problems in this book, you would be wasting your time with several topics that are not addressed on the PE Exam. However, with a little organizing on your own, you can weed out the sections that aren't present on the exam and focus on those that are. There aren't many problems in each section though, so when all is said and done I don't feel like this is a great resource for the exam. It does help though and there is some use to it. It's pretty expensive for what it is, but anything that helps pass is probably worth it (or so I keep telling myself).

This is a waste of time and money. The CERM is, of course, the most essential single reference for the exam, but these problems are way too hard to practice with. They are in no way representative of exam questions and to try to work these long hard problems is a waste of time for someone who has to squeeze studying in after work. If you start with this book for problems you will be so discouraged that you will think you can never ever pass the exam. Buy the NCEES practice exam or some of the Goswami practice exams and you will be better off. I passed Civil Geo first try after I realized that this book was crap unless you just like to torture yourself.

This is a good collection of problems, though may be overkill for what the purchaser really needs. It doesn't actually say so anywhere, but it is basically intended to prepare you to take every single afternoon "depth" exam. It would be a lot better if the sections were divided into questions that were likely to be on the morning "breadth" exam and questions that you only had to worry about if you were taking that particular afternoon exam. I realized this after working through the NCEES-made

geotechnical sample book (which was very good and also has sample questions for the morning exam) so I didn't make myself crazy working on a bunch of stuff that wouldn't have helped me at all.

Great companion to the CERM! I went through and worked it cover to cover. Passed my P.E. on my first attempt! My only complaint are the number of problems that specifically state "(1-hr time limit)". The real exam doesn't have anything REMOTELY this involved, and while it benefits test takers to know the material in-depth before the test, it is perhaps more beneficial to be exposed to questions of the same complexity and difficulty as the real thing. Also, the given answers in the back often made wild assumptions that I would have never thought to make...

the questions were at times too tiring and detailed but if you go through this, you will learn. definitely solve your specialty area questions in fulli found no errors as far as i remember and the questions were good quality.one of the best (but sometimes too detailed) preparation books around

The practice problems are very difficult and I like that since it is helping me get ready for the actual test.

Helped me gain confidence I needed to prepare for the big exam! Solutions had very detailed answers. I found myself gaining a good comfort level from reviewing my answers along with the solutions.

Good practice problems, while they are not as similar to exam problems as some other practice problems I did they are very helpful to learn the material well.

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