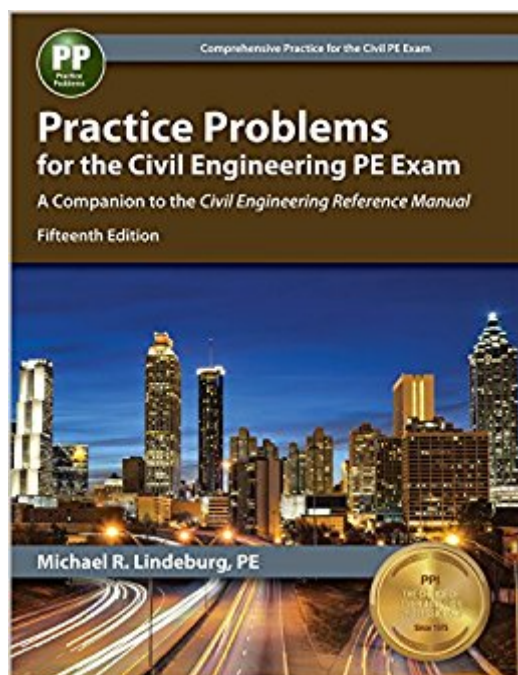


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Practice Problems For The Civil Engineering PE Exam: A Companion To The Civil Engineering Reference Manual, 15th Ed



Synopsis

Comprehensive Practice for the Civil PE Exam Practice Problems for the Civil Engineering PE Exam contains over 900 problems designed to reinforce your knowledge of the topics presented in the Civil Engineering Reference Manual. Short, six-minute, multiple-choice problems follow the NCEES Civil PE exam problem format and focus on individual engineering concepts. Longer, more complex problems challenge your skills in identifying and applying related engineering concepts. Problems will also familiarize you with the codes and standards you'll use on the exam. Solutions are clearly written, complete, and easy to follow. U.S. customary and SI units are equally supported, and units are meticulously identified and carried through in all calculations. All solution methodologies permitted by the NCEES Civil PE exam (e.g., ASD and LRFD) are presented. Frequent references to figures, tables, equations, and appendices in the Civil Engineering Reference Manual and the exam-adopted codes and standards will direct you to relevant support material.

Exam Topics Covered

Civil Breadth: Project Planning; Means and Methods; Soil Mechanics; Structural Mechanics; Hydraulics and Hydrology; Geometrics; Materials; Site Development

Construction: Earthwork Construction and Layout; Estimating Quantities and Costs; Construction Operations and Methods; Scheduling; Material Quality Control and Production; Temporary Structures; Health and Safety

Geotechnical: Site Characterization; Soil Mechanics, Laboratory Testing, and Analysis; Field Materials Testing, Methods, and Safety; Earthquake Engineering and Dynamic Loads; Earth Structures; Groundwater and Seepage; Problematic Soil and Rock Conditions; Earth Retaining Structures; Shallow Foundations; Deep Foundations

Structural: Analysis of Structures; Design and Details of Structures; Codes and Construction

Transportation: Traffic Engineering; Horizontal Design; Vertical Design; Intersection Geometry; Roadside and Cross-Section Design; Signal Design; Traffic Control Design; Geotechnical and Pavement; Drainage; Alternatives Analysis

Water Resources and Environmental: Analysis and Design; Hydraulics – Closed Conduit; Hydraulics – Open Channel; Hydrology; Groundwater and Wells; Wastewater Collection and Treatment; Water Quality; Drinking Water Distribution and Treatment; Engineering Economic Analysis

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Customer Reviews

Michael R. Lindeburg, PE, is one of the best-known authors of engineering textbooks and references. His books and courses have influenced millions of engineers around the world. Since 1975, he has authored more than 35 engineering reference and exam preparation books. He has spent thousands of hours teaching engineering to students and practicing engineers. He holds bachelor of science and master of science degrees in industrial engineering from Stanford University.

This book is primarily a companion to the Civil Engineering Reference Manual. As a tool for preparing for an engineering licensing exam, there are a few, but not very many, ways to use it. Before it grew to behemoth size, I envisioned this book being taken to work, on the bus or train, on business trips, and on weekend pleasure getaways to the beach. I figured that it would [“carry a lot easier than the big Civil Engineering Reference Manual. Though I do not think you will be taking this book on any backpacking trips, you might still find yourself working problems in the cafeteria during your lunch break. The big issue is whether you really work the practice problems or not. Some people think they can read a problem statement, think about it for about ten seconds, read the solution, and then say “Yes, that is what I was thinking of, and that is what I would have done.” Sadly, these people find out too late that the human brain does not learn very efficiently in that manner. Under pressure, they find they know and remember too little. For real learning, you have to spend some time with a stubby pencil.](#)

As preparation for the PE Exam, I did not find this book very helpful at all. It is a completely different format than what you'll find on the actual exam. I took the exam twice, and for the second exam, I had the guidebook written by NCEES, which was far more helpful. This book now sits on my desk at

work for occasional referencing, which is really the only value that I've gotten from it. Otherwise, I'd give it only one star.

They liked!

Way overkill for the actual test. The practice problems compared to those in a practice test from ncees are very different. Save your money and just buy those practice tests.

I used the practice problems to help prepare for the Civil PE Transportation exam and was generally disappointed. When I took the test I discovered that the practice problems were not very representative of the test, tended to be much harder than the test, and finally failed to cover several important questions on the afternoon exam. Overall, I would suggest skipping this book and just go straight to the NCEES for their practice problems.

The problems in this review book are generally very in depth and much more detail than someone studying for the exam would need. You get lost trying to study.

I have studied for pe exam from references book and thought i knew evrything , when i bought this book i understood that i knew nothing,I wish i bought this book at first, it helps you to understand and use every formula and every table that exist in refrence books , ACI and AISC

I used this to study for the April 2009 PE exam, and passed the first time! It covers so many subjects, many of them much more than you'll need for the exam. All the same, this is the best study guide / problems for the PE exam!

I took the CA Civil PE in Oct 2011 and passed the survey + 8-hour portion first time (didn't study for the seismic). I studied one day a week for about 6 weeks prior to the test. I used this book in conjunction with the practice problems. I can tell you, this book is ridiculously too in depth. It's good if you like to go into the test completely over prepared but you will spend a lot of your time researching on a lot of material that won't be on the test. I definitely wouldn't recommend anyone studying the ENTIRE book but to focus primarily on the afternoon section you choose. You will have to brush all other materials but nothing too in depth e.g. you don't need to review the theorems or proofs of equations.

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