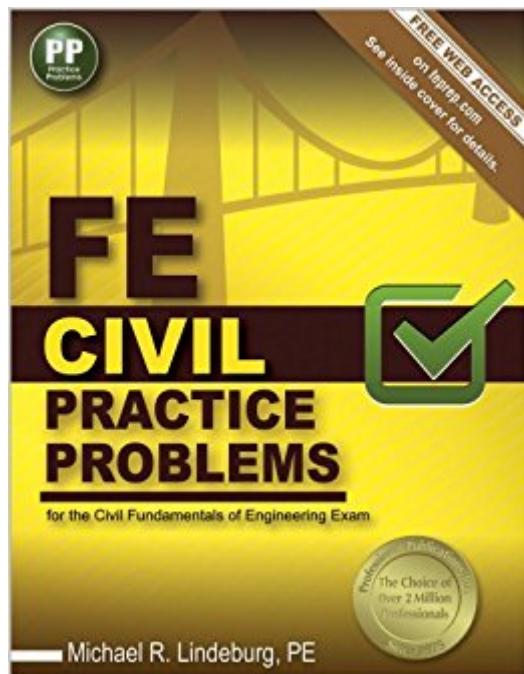


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# FE Civil Practice Problems



## Synopsis

Comprehensive Practice for the Computer-Based FE Civil ExamFE Civil Practice Problems contains 466 problems designed to reinforce your knowledge of important civil engineering topics. Short, three-minute, multiple-choice problems illustrate the type and length of problem you'll encounter on the FE Civil exam. Solutions proceed logically and are clear, complete, and easy to follow. Calculations use equations and nomenclature from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day. Solutions are presented in whichever system of units (customary U.S. or SI) you'll use during the exam, and units are meticulously identified and rigorously carried through in all calculations.

Exam Topics

Covered

Computational Tools

Construction

Dynamics

Engineering Economics

Environmental Engineering

Ethics and Professional Practice

Fluid Mechanics

Geotechnical Engineering

Hydraulics and Hydrologic Systems

Materials

Mathematics

Mechanics of Materials

Probability and Statistics

Statics

Structural Analysis

Structural Design

Surveying

Transportation Engineering

Integrated Products and Support Through feprep.com

FE Civil Practice Problems web book: the online version of this book provides automatic scoring and comparative reporting

FE Civil Review Manual: a comprehensive review manual with complete coverage of the FE Civil exam knowledge areas and relevant elements from the NCEES FE Reference Handbook; the online version offers full-text searching, note-taking, and bookmarking capabilities, and integrated interactive diagnostic exam problems with automatic scoring

FE Civil Practice Exam: an online simulated exam experience, with automatic scoring and comparative reporting

FE Civil Assessments: online problems to evaluate your familiarity with exam topics, with automatic scoring and comparative reporting

FE Civil Flashcards: online flashcards for quick, on-the-go review

FE Review Programs: online programs providing structure and personal feedback as you prepare for the FE exam

Study Schedule: an online, customizable study schedule with targeted reading and homework assignments

## Book Information

Paperback: 240 pages

Publisher: Professional Publications, Inc.; 1 edition (February 25, 2014)

Language: English

ISBN-10: 1591264405

ISBN-13: 978-1591264408

Product Dimensions: 8.5 x 0.5 x 11 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 64 customer reviews

Best Sellers Rank: #22,841 in Books (See Top 100 in Books) #3 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Highway & Traffic #3 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Transportation #5 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Bridges

## 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 dozens of 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.

Ok, here is my story: On my first attempt, I took FE exam right after graduation in summer. I used NCEES FE Reference Handbook and the practice exam sold by NCEES for preparation. I skimmed over Reference Handbook while doing the practice exam. After two weeks, I showed up for the exam thinking I am going to pass. I was WRONG. I failed miserably. I calculated my raw score to be 48%. I would say 20% of the test was very similar to the practice exam. I found the exam to be easy (even though I failed) because I knew most of the materials (or at least I have seen them before), but I wasn't able to quickly point out the equations in Reference Handbook to get the answers. And sometimes, you know the materials, but because you haven't done or seen that particular question while in school, then you will get stuck on doing it or you will get wrong answer trying to solve it. After all, I had to guess a lot of the questions, and since I got stuck on some of the questions, then I ran out of time while still having to answer remaining 20 questions. After huge disappointment and some downtime, I realized that I needed to pass this test no matter how many attempts it took (got to be POSITIVE in life). I knew I needed to do a lot of questions to boost my exam taking speed and get myself familiar with as many questions as I could. So, I bought this book on [feprep.com](http://feprep.com) (eBook version). I started doing all the questions without looking at the solutions. Yes, you need to do it the hard way if you want to pass this exam. I only looked over solution after I was done fully attempting to solve a problem. It took me about good 40 days and 4 hours a day on average to do all the questions, relearn all the materials that were a bit dull, and review everything from beginning to end. The problems in this book are way more difficult than what I got on the test, which is a good thing because it forced me to relearn all the materials again. As a result, hopefully I am a better engineer

today that I was yesterday. Anyways, I showed up on the exam day being prepared, I was able to get through the first 55 questions (i.e., the first part of the exam before taking a short break) with ease. It took me 2 hours and 10 minutes, and I only flagged 8 questions for review. So, I knew I did well and had 3 hours and 20 minutes left for the second part of the exam which is a bit more difficult than the first part (at least, that's how I felt). I got through the second part (i.e., 55 questions) and had 18 questions flagged for review. Although, I had 20 minutes remaining, so, I decided to make educated guess on the questions that I wasn't able to get the right answers. Usually, in some questions, you could easily rule out one of the answers because it doesn't even belong there (if you know the materials, you can easily point that one out). And then, you are left with 3 answers. At this point you could either guess or pick the answer that is more closely represent the value of your wrong calculation (I am not sure if this worked or not but that's what I did). I took the test on Tuesday, and I got my passing result the following Wednesday. Just a side note; by no means I am a smart kid. I was in bottom 10% of my class. I came to USA as an immigrant at age 16 and worked my way up. I graduated with GPA lower than 3.0. My school has a passing rate of 90%+ for the first time exam takers. I just hope this review would give you enough courage and boost of energy to finally pass this test and move forward with your career. Do good in life and be happy!

This is a great study tool if you plan on taking the civil FE exam. The problems are tougher than those on the real exam, so they force you to learn/relearn topics as you work through the problems. The only issue with the book is that there are problems with equations you won't find in the reference handbook, which you should use when solving the problems. Just skip those problems, they won't be on the FE. Overall, it's nearly a must-have.. much better than the huge "FE Reference Manual." Use this book in conjunction with a sample test and you're golden (allow at least 2 weeks to work through the problems... it takes longer than expected!)

Ate up all the people saying, "take it during school, it's fresh in your mind and you won't need to study." I took that advice and bombed my first attempt at the FE Civil CBT. I buckled down and bought his book. You won't find problems like this in the exam but it forces you to use the equation booklet and the tougher the problem, the more time I spent with the booklet. This is what helped me be confident and know what I was doing during my second go with the FE. I just found out today that I passed!!!! My advice is to really be familiar with the booklet and know the basics per each subject.

I was trying to find some good review material seeing how I've been out of school for about a year. This book prepared me well for the exam. I will say the book is harder then the exam ( or at least the exam I took seeing how each one is different) but definetly worth the money I paid for it. Its a lot cheaper then paying for the exam again.The only negative things I can say is there are a lot of problems that were not on the test and I found a couple of problems with the wrong solution but overall I'd say I'm glad I bought it and it was the only material I studied before taking the exam. I passed and guessed on the last few because I ran out of time lol.

I used this book as one of two resources for studying for the FE, and it was very good. It is divided into sections by field then into subsections by problem type Every problem type imaginable was covered thoroughly with detailed explanations after every section. For those really wanting to excel on the FE, also get the accompaniment to this book FE Civil Review Manual which is basically a textbook that goes into detail with the concepts that the practice problems are about.

Problems are more difficult than the FE Civil exam. This book uses a lot of equations NOT in the NCEES reference manual and covers topics not on the FE exam. IMO, start with the NCEES practice exam instead of this book.

Been studying for a while. Book is well written and explain information well and compactly

I bought this upon recommendations from many different sources, and have found it to be helpful in my studies for the Civil FE. It's kind of overwhelming because there are so many problems and they can be high difficulty level, but I have heard that the actual exam questions are easier so it should prepare well. I haven't taken the exam yet, but this book has already helped immensely in putting together a study schedule.

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