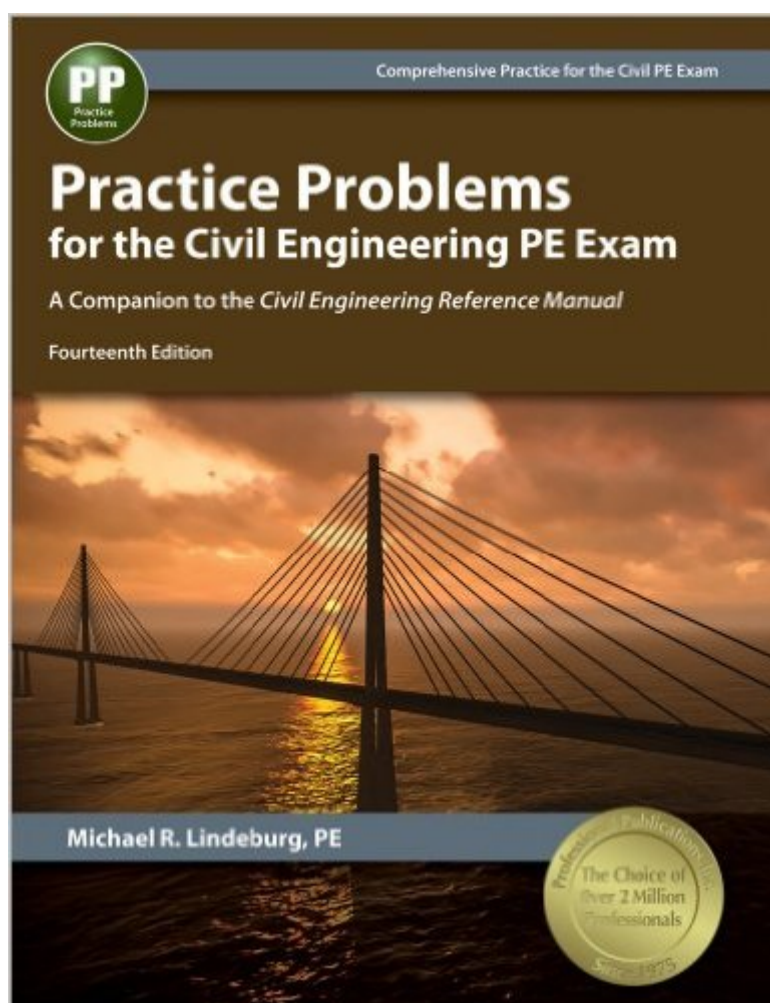


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# Practice Problems For The Civil Engineering PE Exam: A Companion To The Civil Engineering Reference Manual, 14th Ed



## Synopsis

Comprehensive Practice for the Civil PE Exam – Practice Problems for the Civil Engineering PE Exam contains over 750 problems designed to reinforce your knowledge of the topics presented in the Civil Engineering Reference Manual. Short, six-minute, multiple-choice problems follow the format of the NCEES Civil PE exam 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 will use on the exam. Due to the changes in codes for the 2015 NCEES PE exam, there are some updates to this edition. Though not all of PPI's products reflect the adopted editions of the new design standards, in most cases the principles change very little. While specific procedures, equations, or values may change gradually from one edition of a design or reference standard to the next, PPI's books continue to provide an appropriate overview of the design concepts presented, and will prepare you for the upcoming exams. 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.

Topics Covered

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

Geotechnical: Subsurface Exploration and Sampling; Engineering Properties of Soils and 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 and Environmental: Closed Conduit Hydraulics; Open Channel Hydraulics; Hydrology; Groundwater and Well Fields; Wastewater Treatment; Water Quality; Water Treatment; Engineering Economics

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## Customer Reviews

Just as with the CERM, this is way more in-depth and involved than needed to pass the exam. The majority of the problems (not just the ones that say "one hour" are much more time-consuming than the problems on the test. You have to pick and choose what problems you are going to do, because trying to do them all will get you a divorce and a trip to the psychiatric ward. That said, this is still your best option for getting as many practice problems in as many fields as possible, since buying the 6 minute solutions for each of the 5 fields will really hurt your wallet. My advice, do a couple problems from each section you review in the CERM, then move on. Get to the practice tests earlier in your studies, you can always come back for further review if necessary.

Practice problems are EXTREMELY more difficult than the PE Exam. Would NOT recommend using it to study for the exam. Also a lot of changes have happened since the publication of this book. Especially in the transportation area (HCM). If you decide to get this book, and become frustrated, just move on to another study source.

Book is extremely thorough, but also overwhelming and problems are more complicated than actual test. I crammed for the PE exam without ever using this book (due to overwhelming nature and lack of time) and fortunately still passed (with extreme amount of luck and I'm honestly an extremely good test taker). So quite frankly, I'm glad I did not waste time trying to solve problems in this book, but if I had, then I'd be an even more informed engineer and nothing wrong with that!

I'm studying for the April 2016 exam and the books up to date and in the answers it labels the equations that are being used. The only downside side is that some of the solutions are not fully explained so some questions have solutions but no explanation of how they got it.

Very good review for the Civil PE, problems are pretty intense, but if you can work these, the ones on the PE should be a breeze.

Good review questions, contains a mix of homework-set type problems and exam-type problems.

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