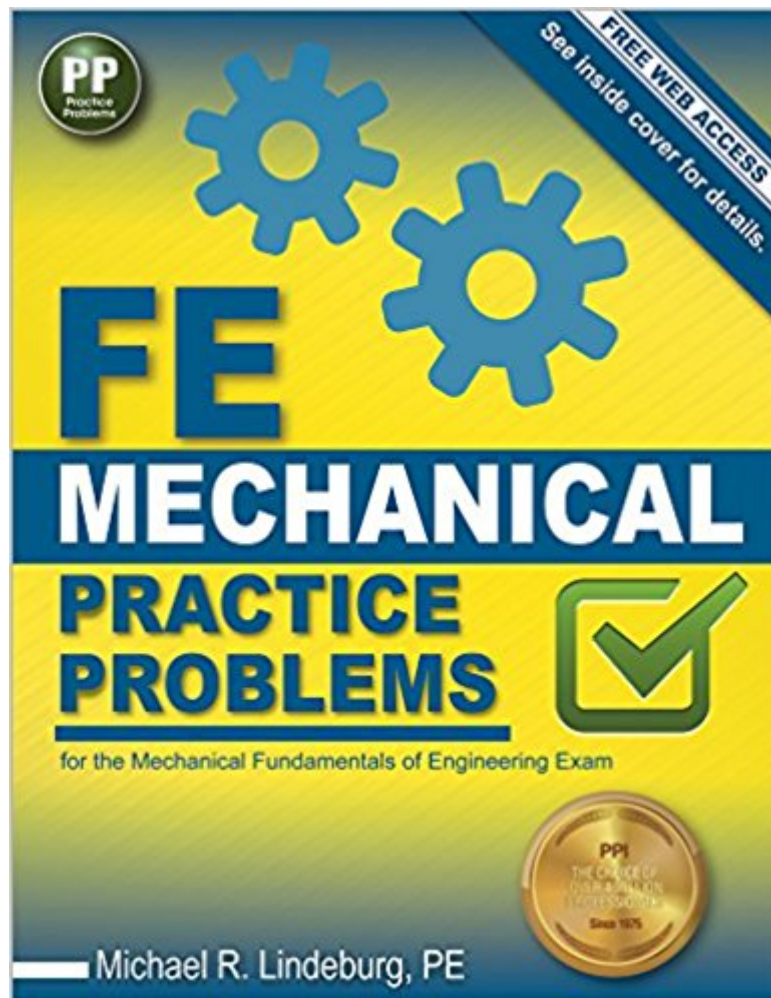




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# FE Mechanical Practice Problems



## Synopsis

Comprehensive Practice for the Computer-Based FE Mechanical Exam

FE Mechanical Practice Problems contains over 460 multiple-choice problems that will reinforce your knowledge of topics covered on the NCEES Mechanical FE exam. These problems are designed to be solved in three minutes or less to demonstrate the format and difficulty of the exam, and to help you focus on individual engineering concepts. Like the exam, problems are grouped by engineering topic.

Solutions are clear, complete, and easy to follow. Step-by-step calculations use equations and nomenclature from the NCEES FE Reference Handbook to help increase your familiarity with the reference you'll have on exam day. Units are meticulously identified and rigorously carried through in all calculations.

FE Mechanical Practice Problems may be used by itself for independent problem-solving practice, or it may be used in conjunction with the FE Mechanical Review Manual. This book follows the FE Mechanical Review Manual in chapter sequence, nomenclature, terminology, and methodology, so you can easily find clear explanations of topics where you need more support. Both products are part of PPI's integrated review program available at [feprep.com](http://feprep.com).

**Exam Topics Covered** Computational Tools Dynamics, Kinematics, and Vibrations Electricity and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics Heat Transfer Material Properties and Processing Mathematics Materials Measurement, Instrumentation, and Controls Mechanical Design and Analysis Mechanics of Materials Probability and Statistics Statics Thermodynamics

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**FE Mechanical Review Manual:** a comprehensive review manual with complete coverage of the FE Mechanical 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 Mechanical Assessments:** online problems to evaluate your familiarity with exam topics, with automatic scoring and comparative reporting

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

**FE Review Programs:** online programs that provide structure and personal feedback to help you prepare to pass the FE Mechanical exam

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

## Book Information

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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 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.

I recently passed the FE Mechanical exam. I went through the whole book using ONLY the provided NCEES manual as a reference for equations and concepts and the calculator that I would use on the exam. I spent 3 weeks going through everything and felt comfortable with most of the questions on the actual exam. The questions in this book are more difficult than the ones on the actual exam, which is good because it prepared me for most everything that was on the exam. There were some concept questions on the exam but if you aren't strong with the material, I would suggest the FE Mechanical Review Manual. I also marked chapters that I struggled with and went back over them once I completed all of the problems in the book. From what I have read on how to pass the exam, I would suggest taking one of the practice exams from NCEES, then use this or the manual to brush up on the subjects that you need the most work in. When taking the exam, I found it best to skip over any question that I wasn't sure how to answer, then come back to it when you get to the end of the section. The first section seemed to be easier and take less time than the second section so its best to pace yourself and give yourself more time for the second half. For a calculator I recommend the TI-36x Pro. I usually use a TI-84 plus and the 36x Pro is very similar to it including the ability to store numbers and insert previous equations/answers. I would also recommend using engineering paper and a pen to practice once you feel more confident in a subject. I suggest a pen because you

are provided a weird pen-like dry erase marker (which doesn't erase) and a reusable notebook for the test.

Great problems, great solutions. This was the only study material that I purchased, and I worked all the way through it in about a month. And then I passed the FE. Do note that the solutions are very short. They are enough to steer you in the right direction if you are fairly fresh on the material, but you may wish for more explanation if it's been a few years or more.

I felt like this book helped me a lot when preparing for the FE. I felt that the problems were very representative of problems on the actual test, perhaps a bit more difficult. Problems in the FE review manual were significantly harder than problems on the actual test, so I think this practice problem book is a better study resource. Basically, if you're choosing between buying this book and the review manual, buy this book. Just cruising through the problems will help you recall concepts and get a quick explanation of how to do the problems.

I do not think this book is really necessary to pass the FE exam. I think the publisher is just trying to squeeze extra money out of unsuspecting engineering students. As long as you have the Review manual you will be ok. I did a few problems randomly in to prepare and I don't think they really helped me. It is more useful to go through it almost like a practice test.

this book is expected to deliver more than just the final answer, For instance, for thermodynamic problems you are on your own and it takes hours to decode the answer given in this book. Waste of time!

Fantastic book! Very good explanations. The questions are very difficult. Really prepares you for the real thing!

If you can work all of these, you will pass the test. Biggest impact on passing my FE Exam was practicing problems including these.

I passed the FE exam due to all the examples in this book...went through it completely about 5 times

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