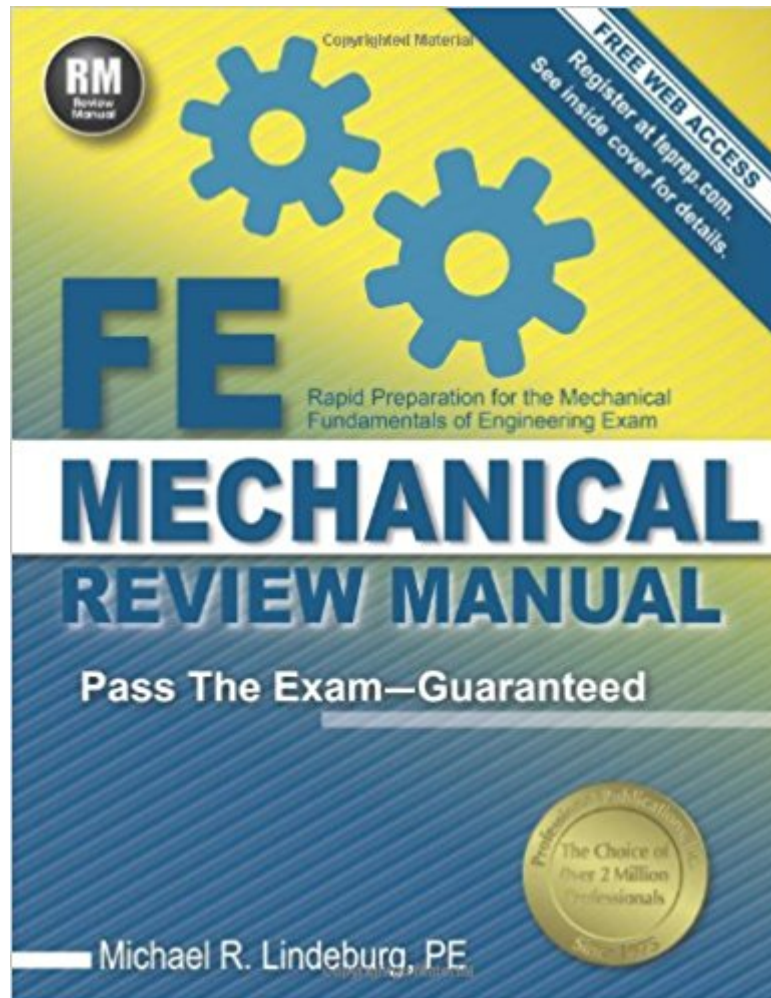


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# FE Mechanical Review Manual



## Synopsis

The Most Comprehensive Book for the Computer-Based Mechanical FE Exam Michael R. Lindeburg, PE's FE Mechanical Review Manual offers complete coverage of FE Mechanical exam knowledge areas and the relevant elements—equations, figures, and tables—from the NCEES FE Reference Handbook. With 15 mini-exams to assess your grasp of the exam's knowledge areas, and concise explanations of thousands of equations and hundreds of figures and tables, the Review Manual contains everything you need to prepare for the FE Mechanical exam. The FE Mechanical Review Manual organizes the NCEES FE Reference Handbook elements logically, grouping related concepts that the Handbook has in disparate locations. All Handbook elements are shown in blue for easy identification. Equations, and their associated variations and values, are clearly presented. Descriptions are succinct and supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. Thousands of terms are indexed to facilitate cross-referencing. If you are preparing for a different FE exam, choose Michael R. Lindeburg, PE's FE Civil Review Manual, FE Electrical and Computer Review Manual, FE Other Disciplines Review Manual, or FE Review Manual. 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 To augment your review, pair your FE Mechanical Review Manual with PPI's FE Mechanical Practice Problems book. It contains more than 460 multiple choice problems designed to be solved in three minutes or less. 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). Don't miss Mechanical FE exam tips, FAQs, digital review products, and more at [ppi2pass.com](http://ppi2pass.com) and [feprep.com](http://feprep.com).

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This massive tome offers extensive review opportunities. If you truly commit to practicing with this text, you are literally guaranteed to pass the exam (or receive a refund). Now, like any review manual or practice guide, it's all about the time you invest ... so the onus is definitely on the reader here. Give yourself plenty of time to complete this text (if you are especially nervous) or to devote yourself to any areas in which you may feel slightly deficient. Without a doubt, this will provide the confidence you need to successfully complete the exam. Now, let's talk about the main issue here: the price is borderline robbery. Personally, I'm not a fan of presses that take advantage of students. Therefore, since you probably still have full library privileges at your school, I would try to order it via inter-library loan. At the very least, your study group could invest in a single copy and then put it on reserve at the library (for your group). Be creative ... This is a phenomenal, immaculately edited text that, most assuredly, will help you with the exam. But the price ... even if it were \$100.00 less, it would still be frustrating. It is always disheartening to see publishers taking advantage of those who are on the cusp of truly benefiting our society. Good luck in your studies!

This helped a lot for taking the Ohio FE. Honestly as long as you do the assessments for every section you'll probably do just fine on the test, just work fully through all of those problems, and more importantly practice with an open pdf of the reference document you'll have to use on your computer as you work the problems. Knowing where to find equations is probably 80% of the difficulty because equations are scattered all over the place and the notation is weird and not consistent with what normal convention is. Just buy it, it's worth it to get it done right.

This review guide helped me immensely to study for the FE Mechanical Test. It helps you set up a study schedule depending on how much time there is until you have to take the test, and I think that was the biggest help for me. I hate studying, but with a set schedule, it was much easier. I would also recommend buying Lindeburg's FE Mechanical Practice Problems. There are many practice

problems in the Review Manual, but completing the additional practice problems will for sure make it hard to fail the test. Just make sure you can do the problems confidently while using the FE Reference Handbook. Cons: Some of the practice problems seemed kind of out of left field, and I spent a lot of time trying to figure them out. But, the questions offered in the book are difficult on purpose to help prepare you for the test. The test isn't nearly as difficult.

If you are taking the FE Mechanical then I highly recommend getting this review manual. I graduated with my degree in Mechanical Engineering in December and took the FE last Saturday and PASSED! This book covers everything that I learned over my 4 years of undergrad and helped me relearn a lot of material that I had forgot. I studied 5 days a week every morning for about 1-2 hours over the course of two months before my exam. This manual has A LOT of information and problems and does a really good job at explaining the material and gives detailed solutions. As far as the FE is concerned, it was not as hard as I thought it would be because a lot of the problems that I had were very similar to the ones in this review manual. The problems on the FE were not that difficult and it really was just a matter of finding the correct formulas to use and plugging it in. I would definitely make sure you know your thermodynamics well because I had several questions related to this topic and they were not as easy as the rest of the questions. Also be sure to go over the reference handbook a few times so that you know where to find the formula you need and do not waste any time. You can download the reference handbook for free from the NCEES website. I also got the FE Mechanical Practice Problem book by this author as well and I recommend getting it too if you feel like you need more examples because it has a variety of problems that are not in the review manual. I paid about \$250 for both the review manual and practice problem book from PPI's website and it was definitely worth every cent! Yes, this is expensive but you can always resell it after you pass the test.

These books are overpriced. Rather than buying it, I would recommend you go to a library and borrow a similar book. Also, there are a lot of resources available online. The equations sheet (which you need to be familiar with for the test) is available for download on the official website. If you have the cash to spend on this, it still is a solid review. And, you can keep it as a reference for the future. But definitely overpriced for studying for the exam.

Passed on my first try. There's quite a LOT of material to cover. Took me 2 days to cover the Fluids chapter. Take your time. There are some sections that I've never seen, so I only covered the

assessment test for them. E-book is timed offer only (30 days) and it's only available on their website, not downloadable.

What I like about this book is that it provides more details than the NCEES's Reference Handbook. However, when you pay big money for a big book you expect to see a definition for every parameter in each equations. However this is not true for this hefty book. There are many equations I found with no good explanations. What I ended up doing was looking up internet for what is missing in that book and I can tell you I have been spending so much time on internet lately.

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