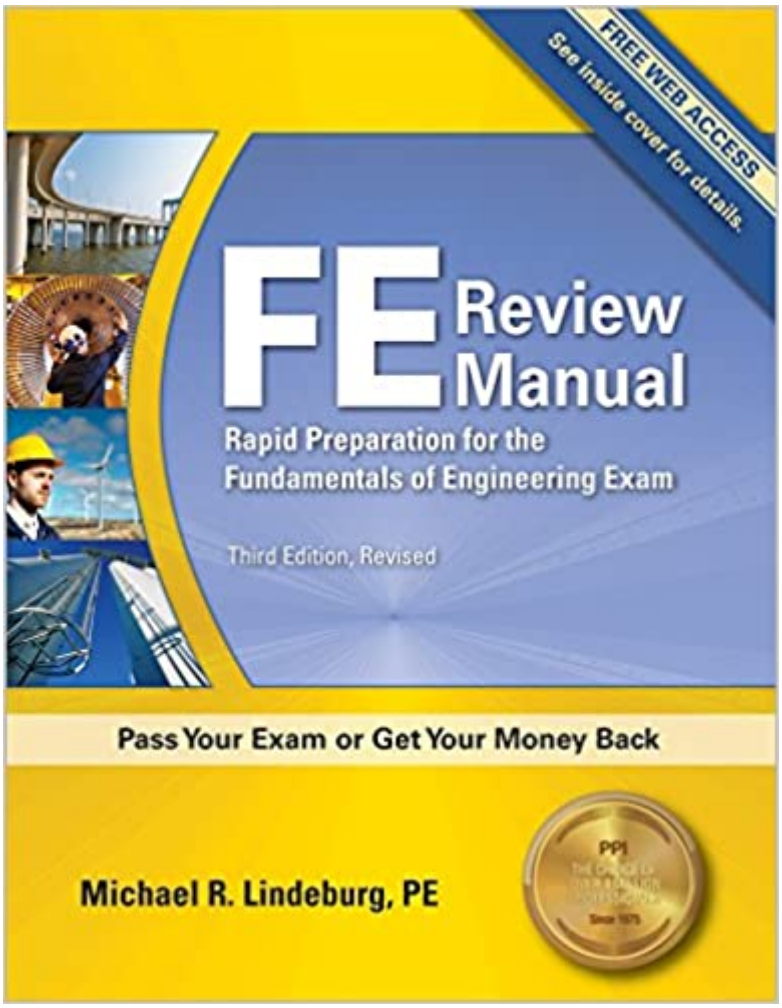
FE Review Manual: Rapid Preparation For The Fundamentals Of Engineering Exam, 3rd Ed



Synopsis

The Best-Selling Book for FE Exam PreparationThe FE Review Manual is the most trusted FE exam preparation book. Gain a better understanding of key concepts and save prep time by reviewing FE exam topics and NCEES Handbook equations in a single location. These equations, along with NCEES Handbook figures and tables, are distinguished in green text for easy cross-referencing. Use the 13 diagnostic exams to identify where you need the most review and improve your problem-solving skills with over 1,200 practice problems. You can also look for PPI's new discipline-specific FE review manuals:FE Civil Review ManualFE Electrical and Computer Review ManualFE Mechanical Review ManualFE Other Disciplines Review Manual Entrust your FE exam preparation to the FE Review Manual and get the power to pass the first timeÃ¢â ¬â •guaranteedÃ¢â ¬â •or weÃ¢â ¬â„¢ll refund your purchase price.FE exam coverage in 54 easy-to-read chapters13 topic-specific diagnostic examsGreen text to identify equations, figures, and tables found in the NCEES HandbookOver 1,200 practice problems with step-by-step solutionsSI units throughoutSample study scheduleComprehensive, easy-to-use indexExam tips and adviceTopics Covered IncludeBiologyChemistryComputers, Measurement, and ControlsConversion FactorsDynamicsElectric CircuitsEngineering EconomicsEthicsFluid MechanicsMaterials Science/Structure of MatterMathematicsMechanics of Materials StaticsThermodynamics and Heat TransferTransport PhenomenaUnits and Fundamental Constants_____Since 1975, more than 3 million people preparing for their engineering, surveying, architecture, LEEDÃ Â®, interior design, and landscape architecture exams have entrusted their exam prep to PPI. For more information, visit us at www.ppi2pass.com.

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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 over 40 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.

Update 07/18/2016: This "FE Review Manual" was for the old-style, 8-hour-long, pencil-and-paper Fundamentals of Engineering (FE) exam. Visit the NCEES website (search: NCEES FE) for an explanation of the new, shorter, computer-based exam. While there: (1) make a copy of the exam specification for your FE exam; (2) watch the video on how to use the NCEES Reference Manual; and (3) download a copy of the NCEES Reference Manual. Instead of using the ÃƒÂ¢Ã â ¬Ã Å“FE Review Manual,ÃƒÂ¢Ã â ¬Ã Â• you should study from a review manual that has been updated for the new, discipline-specific computer-based FE exam (FE Mechanical; FE Electrical and Computer; FE Civil; FE Chemical; FE Environmental; FE Industrial and Systems; and FE Other Disciplines). PPI and Kaplan have review manuals for the new FE exam (ÃƒÂ¢Ã â ¬Ã Å“FE Mechanical Review ManualÃƒÂ¢Ã â ¬Ã Â•; ÃƒÂ¢Ã â ¬Ã Å“FE Electrical and Computer Review ManualÃƒÂ¢Ã â ¬Ã Â•; ÃƒÂ¢Ã â ¬Ã Å“FE Civil Review ManualÃƒÂ¢Ã â ¬Ã Â•; and ÃƒÂ¢Ã â ¬Ã Å“FE Chemical Review Manual). With these up-to-date review manuals, you donÃƒÂ¢Ã â ¬Ã â„¢t need the "FE Review Manual" or the old discipline-specific review manuals (which were for the afternoon section of the old exam). You could conceivably prepare for the new FE exam using a copy of the old ÃƒÂ¢Ã â ¬Ã Å“FE Review ManualÃƒÂ¢Ã â ¬Ã Â• and the exam specification for your exam to guide your studies (you can find the exam specification on the NCEES website).Update 03/20/14: The Fundamentals of Engineering (FE) exam is now administered as a computer-based exam. Check out the NCEES website and YouTube channel (NCEES Media) for details. The website also provides a practice exam. While the old 180-question exam was 8 hours in duration, the new 110-question (multiple-choice) exam has been shortened to 5 hours and 20 minutes. The total appointment time is 6 hours, which includes time for orientation and a break. A simulated TI-30XS onscreen calculator is available for examinees during the exam. The FE is offered in seven disciplines: FE Chemical; FE Civil; FE Electrical and Computer; FE

Environmental; FE Industrial; FE Mechanical; and FE Other Disciplines. Most FE review materials have not caught up with the new exam. Go to the NCEES website (ncees dot org slash exams slash fe-exam) to find the "exam specifications" for your own discipline-specific exam. Create a study plan for yourself based on the topics for your discipline and number of questions in each topic. You should also take the practice exams on the NCEES website, since those should align most closely with the up-to-date exam. Also, download the digital copy of the reference manual (PDF file) from the NCEES website and get used to using it on a computer (watch the how-to video).Original Review (applicable to the old-style FE exam):In short, the Michael R. Lindeburg books are the very best for preparing for the Fundamentals of Engineering (FE) exam. If you are going to take the FE exam, then buy this book (as well as the discipline-specific book) and spend at least three month studying and answering the sample problems. Study only topics that will be on your discipline-specific examination (see NCEES website). Also, take at least two practice exams (using the NCEES FE Supplied-Reference Manual and an approved calculator). I have created an Listmania titled "Fundamentals of Engineering (FE) Exam Prep."If you aspire to become a working engineer, then you must obtain a professional engineer (PE) license for each state in which you work. PE candidates must achieve acceptable results on two exams: the Fundamentals of Engineering (FE) exam, which is usually taken in the senior year of college, and the discipline-specific Principles and Practice of Engineering (PE) Exam, which is typically taken after at least four years of work experience.Passing this exam is one of the most important goals of your life. Take it seriously! Don’t listen to those folks who tell you to take the exam without any preparation.You will easily pass the FE exam if you spend three months (more or less) seriously preparing for it. You might need longer if you have been out of school for a number of years. Granted, the current exam is easier than it was in the past; but you should still prepare systematically and thoroughly. If you are still in college, then I recommend taking the exam during your senior year. For this case, I would recommend studying 10 to 20 hours per week during the entire summer, then cramming for four weeks right before the exam. For obvious reasons, you should try (if you can) to take a lighter course load during the semester in which the exam is given.The types of questions on the exam are no mystery. If you are not ready on exam day, it is YOUR fault! To be successful, you need only six things: (1) Michael R. Lindeburg’s FE review manual (FE Review Manual: Rapid Preparation for the Fundamentals of Engineering Exam); (2) Lindeburg’s discipline-specific review book (e.g., mechanical, electrical, civil, chemical); (3) the NCEES FE Supplied-Reference Manual (FE Supplied-Reference Handbook, 8th edition, 2nd revision); (4) a freshman calculus book (knowing freshman calculus could make the difference

between passing and failing); (5) an approved calculator (some calculators are not allowed); (6) FE sample examinations (FE/EIT Sample Examinations, 2nd Edition). You should also check out the NCEES website for up-to-date information about your selected discipline-specific examination, as well as practice exam(s) that should most closely match the current style and content.Considering how much money you (or your parents) spent on your college education, the cost of the above is trivial. The Lindeburg books are the absolute best for FE exam prep. Trust me, you need both the FE Review Manual, the discipline specific book AND the Supplied-Reference Manual. Now is not the time to be frugal. Take this exam very seriously. Unless you get a PE license, you cannot (in most states) legally call yourself "engineer." Many jobs are open only to licensed PEs. Salaries are much higher for licensed PEs. This exam affects your whole life!The exam is deliberately designed so the examinee is under extreme time pressure. Without preparation, you might be able to figure out the answers to the questions, but if it takes you five to ten minutes per question, instead of a roughly three minutes, then you are likely to fail the exam. You need to be so well prepared (by going through the Lindeburg books and practicing with the NCEES FE-Supplied Reference Manual) that you IMMEDIATELY recognize the problem type and you IMMEDIATELY know where to find (and how to use) the equation or constant or conversion factor in the reference book.Check the website for your state’s licensing board (or give them a call) to see which calculators are approved for use during the exam. You will not be allowed to take the exam with an unapproved calculator (for example, the HP 50g cannot be used in most states). Therefore, if need be, buy an approved calculator BEFORE starting your exam preparation. Perform all example problems with this calculator, as well as (at least two) FE practice exams. This is exam is so important, you might want to take two approved calculators into the exam (just in case one fails).You should obtain and use a real copy of the NCEES FE Supplied-Reference Manual (FE Supplied-Reference Handbook, 8th edition, 2nd revision) throughout your entire exam preparation. You cannot take your own reference manual into the exam. You should use this reference manual during all of your exam preparation to become intimately familiar with the content and location of content. By test day, you should know immediately what is in the reference manual and how to find it quickly. A searchable, electronic copy of the handbook may be displayed on the monitor during your computer-based examination. You should go to the NCEES website and download a copy of the handbook so you get used to using it. While there, you should also watch the video explaining how to search the onscreen handbook during your computer-based exam. Make sure you are studying from the latest version of the handbook (i.e., make sure your copy matches the NCEES downloaded electronic version).Check out the NCEES website for general information on the FE exam, study materials, and online practice

exam.Good luck!

For Electrical Engineers taking the Computer/Electrical FE, this is only a good resource for additional practice problems. This doesn't cover all the topics the EE/CE FE covers. It actually misses several big topics like electronic devices, which is like 9-12 questions. If you uses this along with the Electrical/Computer Review manual it is GREAT for additional practice questions, but I cannot recommend this alone. I cannot speak to how it covers the material for any other engineering FEs, but I studied and passed my FE in July 2017 using this as a back up study resource.

Good review of the fundamentals. I took off one star since I was totally freaked out of the exam after failing test exam after test exam in this book and studying for months... Turns out the real exam was actually WAY easier than this book. I felt that the extra work was worth it though, and prepared me more to apply for engineering jobs with increased confidence when I found out I had passed the exam.

A comprehensive review of all engineering subject matters. The practice problems in the book are quite nice as they offer solutions and guidance for the test. I found the problems to be quite similar to the actual exam. Using this book as my study material, I passed the FE exam.

This is a good-ish book, but doesn't have too much for topic specific exams, like FE Chemical. Unfortunately, there are very few topic specific review materials out there, so I got this one (it is clearly better than the others, even though it lacks depth on such topics as mass transfer, heat transfer correlations, applicative process control, and chemical reaction kinetics)

I highly recommend this manual to help pass the FE exam. I don't think I could have passed without it and I was so glad that there was review material available. I had planned to take the EIT exam in 1994 after I graduated, but life happened and I never took the exam. So after 19 years of being away from school, I bought this book and started going through the material and the practice problems. I first went through the end of chapter questions and tried to figure out the answers based on the material (my textbooks have been in a landfill for years). After I went through all the topics (except biology since I am ME) I went back through each topic and took the 60 minute diagnostic exams and reviewed areas that I missed. Then I took the diagnostic exam again to make sure I understood the material. Finally I took the practice exam about a month before the actual exam, and

then went back through the problems I missed to figure out my mistakes. I started this process about 6 months before the exam and worked sometimes 4-5 nights a week for at least an hour. When I think of all the time I spent using this book, the cost is miniscule. This book particularly helped with preparing for the first part of the exam. You develop an internal clock in your head since you only have 90 seconds per problem. If you spend several minutes on a problem, it will not be worth it even if you figure out the answer because you will not have time to finish all the problems. Finally, I saw many comments about not to wait too long to take the FE test after you graduate, and while I agree with the advice, it was discouraging for those like myself who did wait too long. But if you can dedicate the time, there is enjoyment in going through these problems, kind of like seeing old friends again. I did pass the exam and I was very confident I passed right after completing the test.My only gripe was that some of the practice problems on the sample test did not have formulas in the NCEES reference book, so of course the material would not be on the test. I think this book needs to be updated to align itself with the material in the reference book. I kind of panicked when I missed so many of those problems on the sample test.

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