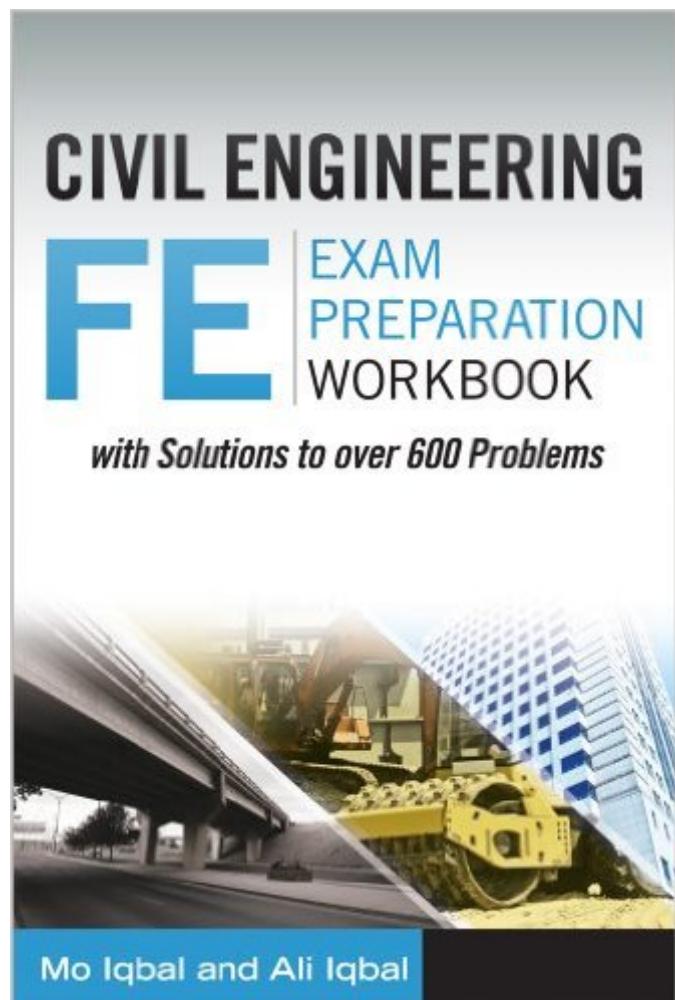


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# Civil Engineering FE Exam Preparation Workbook



## Synopsis

The NCEES FE (Fundamentals of Engineering) examination is the first step in becoming a licensed engineer in the United States. This book addresses the newly-formatted 2014 Civil Engineering FE Computer-based examination specifications. This book is discipline-specific and covers the following subjects for the Civil Engineering FE exam: 1. Mathematics 2. Probability and Statistics 3. Computer Methods 4. Ethics and Professional Conduct 5. Engineering Economics 6. Statics 7. Dynamics 8. Mechanics of Materials 9. Materials 10. Fluid Mechanics 11. Hydraulics and Hydrology 12. Structural Analysis 13. Structural Design 14. Geotechnical Engineering 15. Transportation Engineering 16. Environmental Engineering 17. Construction 18. Surveying The NCEES specifications are described in the NCEES Reference Handbook version 9.0 available on the NCEES website. This book is based on these specifications and has over 600 solved problems, which have been designed to be as exam-like as possible. The book works hand in hand with the NCEES Handbook. It uses the Handbook equations and notations, and provides numerous footnotes to guide the reader where the equation used in the problem can be found in the NCEES Handbook. Its goal is to provide an efficient preparation for the FE CE exam. This book uses most of the equations and concepts described in the NCEES specifications, but not all of them. This does not mean that only the equations and concepts covered in the book are important and that what is not covered is not important. Every field in engineering has broad applications and all equations and concepts in the specifications are equally important for the exam. This is a workbook. Every problem introduces a new principle, concept or application. Working with the solved problems and mastering the concepts and applications will help in preparing for the FE examination.

## Book Information

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UPDATE (8/4/2015): I recently grabbed this book because I needed to wedge something in a door to keep it open and I didn't want to risk slitting a block of scrap wood - which has more value then this book. This event reminded me to check on ppi's website to see if they finally got around to posting the errata; which they did. There is 30 corrections to date. Ouch!Stay away from this book or at least wait until another edition is printed that addresses the numerous errors and typos. For some of the content that is actually correct, some of the solution explanations can lead to further confusion of the subject matter. Not all problems link solution formula to the NCEES ref book as advertised and in some cases, not helpful if it did. As an example, if a graph from the NCEES book is referenced, don't include a modified form of the graph in the solution and reverse the axes. Second, I hate when problem/solution books present the solution and answer right after each question as this book does. There is NO convenience for the end user with this set up and only justifies a half-assed attempt at product delivery by the publisher. It is a real pain in the butt when trying to read a question without inadvertently seeing any part of the solution or answer. With every flip of a page, I should not have to act like there is a naked picture of my mom below each question. I try to find a positive with every study manual or text I purchase and review. If I have to use at least one star to rate, I will try to come up with one positive. For this book, the only positive, unless you consider identifying errors as confidence boosting, is that the book is a great collection of FE Civil type questions.

I really wanted to like this exam preparation workbook. At times, the problems are worth going through and the book is good for some additional all-in-one practice but I'm afraid that is all the book is good for. It ALMOST seemed like a potentially good go-to practice book, but I cannot allow the sloppiness of the authors, publishers, and editors to get another undeserved good review. If I was the author of this book, I would feel very embarrassed about this product. I like to make scoring rosters to explain the reasoning behind my rating so that maybe it may help people see different qualities of this book they may be particularly looking for. Convenience (6/10): The one thing that struck me when I got this book was the size. It was thick, yet you could take it with you anywhere. Something good to take with you if you use public transportation to school or work. You can easily do problems on the train and not feel overwhelmed by the bulkiness of the book. For the most part,

the book is organized well and is easy to navigate to another section. This is an all-in-one exam prep workbook so you're going to get all the flavors in the FE exam. However, you only get a taste. So, basically portable size, decent organization, and 'room-for-improvement' contents gives this book a whopping 6/10 for convenience. Educational/Informative (3/10): This, I believe is no fault of the authors being that it is a workbook and nothing else. Keep that in mind! They will not show you formulas, concepts, or how to apply them unless it applies to a specific solution to a question in the workbook. You can learn a few things from the solutions, but you will not learn anything up front. You dive into problems and if you don't know the concepts, well, too bad. Look elsewhere.

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