

Six-Minute Solutions for Civil PE Exam Structural Problems, 5th Ed

By Christine A. Subasic PE

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Targeted Training for Solving Civil PE Exam Structural Multiple-Choice Problems

Six-Minute Solutions for Civil PE Exam Structural Problems contains 100 multiple-choice problems representative of the Civil PE exam's format and structural knowledge areas. The first 20 problems cover civil breadth exam structural topics. The remaining 80 problems cover civil depth exam structural topics.

Six-Minute Solutions includes hints that provide problem-solving guidance when you need it. Each solution describes common errors so you can avoid choosing incorrect answers. You'll learn accurate and efficient solving methods by reviewing each problem's comprehensive, step-by-step solution. Solutions also frequently reference the Civil PE exam structural codes and standards to help familiarize you with the references you'll use on exam day.

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 concepts presented, and will prepare you for the upcoming exams.

Structural Topics Covered

- Loadings
- Analysis
- Mechanics of Materials
- Materials
- Member Design
- Design Criteria

Referenced Codes and Standards

- *AASHTO LRFD Bridge Design Specifications*
- *Building Code Requirements for Structural Concrete* (ACI 318)
- *Building Code Requirements and Specification for Masonry Structures* (ACI 530/530.1)
- AISC *Steel Construction Manual*
- *Minimum Design Loads for Buildings and Other Structures* (ASCE7)
- *International Building Code* (IBC)
- *National Design Specification for Wood Construction and Supplement* (NDS/NDS Supp.)
- *PCI Design Handbook* (PCI)

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Editorial Review

About the Author

Christine A. Subasic, PE, is a registered engineer in North Carolina and Virginia. She has been a consulting architectural engineer for over 20 years, specializing in masonry and structural design, standards development, and technical writing. Ms. Subasic earned a bachelor of architectural engineering degree, structures option, from The Pennsylvania State University.

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THIS BOOK'S ORGANIZATION
Six-Minute Solutions for Civil PE Exam Structural Problems is organized into two sections. The first section, Breadth Problems, presents 20 structural engineering problems of the type that would be expected in the morning session of the civil PE exam. The second section, Depth Problems, presents 80 problems representative of those found on the structural depth session of the exam. The two sections of the book are further subdivided into topic areas, which correlate with the topics given in the NCEES structural depth exam specifications.

HOW TO USE THIS BOOK
In *Six-Minute Solutions for Civil PE Exam Structural Problems*, each problem statement, with its supporting information and answer options, is presented in the same format as the problems encountered on the PE exam. However, unlike on the exam, each problem in this book includes a hint to provide direction in solving the problem. Each solution is presented in a step-bystep sequence to help you follow the logical development of the correct problem-solving approach and to provide examples of how you may want to solve similar problems during the PE exam.

In addition to the correct solution, you will find an explanation of the faulty solutions leading to the three incorrect answer options. The incorrect solutions are intended to represent common mistakes specific to different problem types. These may be simple mathematical errors, such as failing to square a term in an equation, or more serious errors, such as using the wrong equation.

The solution presented for each problem may represent only one of several methods for obtaining the correct answer. Although most of these problems have unique solutions, alternative problem-solving methods may produce different, but nonetheless appropriate, answers. To optimize your study time and obtain the maximum benefit from the practice problems, consider the following suggestions.

1. Complete an overall review of the problems, and identify the subjects that you are least familiar with. Work a few of these problems to assess your general understanding of the subjects and to identify your strengths and weaknesses.

2. Locate and organize relevant resource materials.(See the Codes and References section of this book for guidance.) As you work problems, some of these resources will emerge as more useful to you than others. These are what you will want to have on hand when taking the PE exam.

3. Work the problems in one subject area at a time, starting with the subject areas that you have the most

difficulty with.

4. When possible, work problems without utilizing the hints. Always attempt your own solutions before looking at the solutions provided in the book. Use the solutions to check your work or to provide guidance in solving the more difficult problems. Use the incorrect solutions to help identify pitfalls and to develop strategies to avoid them.

5. Use each subject area's solutions as a guide to understanding general problem-solving approaches. Although problems identical to those presented in *Six-Minute Solutions for Civil PE Exam Structural Problems* will not be encountered on the PE exam, the approach to solving problems will be the same.

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John Rivera:

Spent a free the perfect time to be fun activity to accomplish! A lot of people spent their spare time with their family, or their particular friends. Usually they doing activity like watching television, about to beach, or picnic inside park. They actually doing same task every week. Do you feel it? Would you like to something different to fill your free time/ holiday? Could possibly be reading a book could be option to fill your totally free time/ holiday. The first thing that you ask may be what kinds of book that you should read. If you want to try out look for book, may be the reserve untitled Six-Minute Solutions for Civil PE Exam Structural Problems, 5th Ed can be excellent book to read. May be it might be best activity to you.

Elizabeth Givens:

Why? Because this Six-Minute Solutions for Civil PE Exam Structural Problems, 5th Ed is an unordinary book that the inside of the guide waiting for you to snap the idea but latter it will distress you with the secret the item inside. Reading this book adjacent to it was fantastic author who else write the book in such incredible way makes the content within easier to understand, entertaining technique but still convey the meaning completely. So , it is good for you for not hesitating having this ever again or you going to regret it. This excellent book will give you a lot of rewards than the other book get such as help improving your expertise and your critical thinking approach. So , still want to postpone having that book? If I were you I will go to the publication store hurriedly.

Jose Rivera:

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