



Structural Depth Practice Exams for the Civil PE Exam, 3rd Ed

By James Giancaspro PhD PE

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Two Realistic 40-Problem Structural Depth Exams

Structural Depth Practice Exams contains two 40-problem, multiple-choice exams consistent with the NCEES Civil PE structural depth exam's format and specifications. Like the actual exam, the problems in this book require an average of six minutes to solve. Comprehensive step-by-step solutions demonstrate accurate and efficient problem-solving approaches. Author commentary is provided in the solutions to explain time-saving shortcuts and common pitfalls.

Structural Depth Practice Exams will help you to

- familiarize yourself with the exam scope and format
- identify accurate and efficient problem-solving approaches
- connect relevant theory to exam-like problems
- solve problems under timed conditions

Referenced Codes and Standards

- *AASHTO LRFD Bridge Design Specifications* (AASHTO)
- *Building Code Requirements and Specification for Masonry Structures* (ACI 530)
- *Building Code Requirements for Structural Concrete* (ACI 318)
- *Minimum Design Loads for Buildings and Other Structures* (ASCE/SEI7)
- *International Building Code* (IBC)
- *National Design Specification for Wood Construction ASD/LRFD* (NDS)
- *PCI Design Handbook: Precast and Prestressed Concrete* (PCI)
- *Safety and Health Regulations for Construction* (OSHA 29 CFR Part 1926)
- *Steel Construction Manual* (AISC)

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Editorial Review

About the Author

James Giancaspro, PhD, PE, is an associate professor of civil engineering at the University of Miami. He received a bachelor of science degree in civil engineering and master of science and doctoral degrees in structural engineering from Rutgers University. He has collaborated with scientists at the Federal Aviation Administration (FAA) to investigate high-temperature-resistant materials used in aerospace applications. He also spent several years in the Structural Damage Technology division of Boeing, where he developed test methods for composite materials and experimental programs to evaluate their durability and damage tolerance. In 2013, he received the James M. Robbins Excellence in Teaching Award from Chi Epsilon for the southeastern United States.

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ABOUT THIS BOOK

Structural Depth Practice Exams for the Civil PE Exam contains two civil PE structural depth exams designed to match the format and specifications defined by the National Council of Examiners for Engineering and Surveying (NCEES). Each 40-problem practice exam contains two problems per page, which is the same format as you will encounter on the civil PE structural depth exam. A step-by-step solution is provided for each problem. Each solution presents the correct path needed to arrive at the answer, along with relevant assumptions, illustrations, and explicit calculations. In some solutions, multiple approaches are shown so you can see alternative methods that may be used to solve the problems.

Read the commentary to help streamline your problemsolving approach and to avoid making simple mistakes during the exam.

The solutions in this book are consistent with examapproved solving methods, as outlined in the NCEES specifications. You should work within these constraints while taking these practice exams. Steel problems on the exam can be solved using either the ASD or LRFD methods. This book gives ASD values followed by LRFD values in parentheses, and problems are solved using both methods. For concrete problems, ACI 318 App. C solving methods may not be used on the exam. Therefore, all concrete problems in this book are solved using ACI 318 Chap. 9 methods. For masonry problems involving ACI 530/530.1, only allowable stress design (ASD) methods must be used on the exam, but strength design (SD) Sec. 3.3.5 may be used for walls with out-of-plane loads.

Users Review

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