



Structural Depth Reference Manual for the Civil PE Exam

By Alan Williams

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The *Structural Depth Reference Manual for the Civil PE Exam* provides a comprehensive review of the relevant codes covered on the structural depth section of the civil PE exam. Understanding these codes is your key to success on this exam.

More than 120 example and practice problems, with complete step-by-step solutions, demonstrate how to use specific code equations, constants, and variables to determine whether structures meet code requirements. Each problem focuses on a specific code issue and provides a clear explanation of the code. Dozens of detailed graphics enhance your comprehension of the applicable codes.

The structural depth section of the civil PE exam requires a thorough familiarity with relevant codes, and the *Structural Depth Reference Manual, Second Edition*, is updated to the latest exam code specifications. The updated codes include:

- 2005 edition of AISC
- 2005 edition of NDS
- 2005 edition of ACI 318
- 2005 edition of ACI 530/ASCE 5/TMS 402
- 2005 edition of ASCE 7
- 2006 edition of IBC

The *Structural Depth Reference Manual* and its companion products are part of PPI's best-selling exam review series, used by more than 1 million engineers to prepare for their licensing exams.

Topics Covered Include

- Reinforced Concrete Design
- Foundations
- Prestressed Concrete Design
- Structural Steel Design
- Design of Wood Structures
- Design of Reinforced Masonry

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Editorial Review

About the Author

Alan Williams, PhD, SE, FICE, C Eng, is a registered professional engineer and structural engineer in California, a Fellow and Life Member of the Institution of Civil Engineers, a Chartered Engineer in the United Kingdom, and a member of the Structural Engineers Association of Southern California. He obtained his bachelor of science degree and doctorate from University of Leeds in England. Dr. Williams has extensive experience teaching and practicing structural engineering, including designing and constructing bridges, schools, and industrial and commercial structures. He has worked as a senior engineer with the California Department of Transportation and as a Principal for Structural Safety with the California Division of the State Architect. Dr. Williams has published several textbooks and papers on structural engineering design, structural analysis, seismic design, and reinforced and prestressed concrete design.

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Structural Depth Reference Manual for the Civil PE Exam addresses the structural depth section of the civil PE exam administered by the National Council of Examiners for Engineering and Surveying (NCEES). The structural depth section of the exam is intended to assess your knowledge of structural design principles and practice. The problems in the exam are intended to be representative of the process of designing portions of real structures.

This book is written with the exam in mind. It is organized into six chapters that correspond to a specific material covered on the exam.

1. reinforced concrete design
2. foundations and retaining structures
3. prestressed concrete design
4. structural steel design
5. timber design
6. masonry design

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