



Structural Depth Reference Manual for the Civil PE Exam

By Alan Williams PhD SE FICE C Eng

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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. A total of 130 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.

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

The structural depth section of the Civil PE exam requires a thorough familiarity with relevant codes, and the *Structural Depth Reference Manual*, 3rd Edition, is updated to the latest exam code specifications. The updated codes include:

- 2009 edition of IBC
- 2008 edition of ACI 318
- 2008 edition of ACI 530
- 2005 edition of AISC
- 2005 edition of NDS
- 2005 edition of ASCE 7

Exam Topics Covered

- Reinforced Concrete Design

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

What's New in This Edition

- Code updates to align with revised civil structural depth specifications
 - 2008 ACI 318
 - 2008 ACI 530
 - 2009 IBC
- Addition of multiple-choice problems to better align with the exam



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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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