



Structural Depth Reference Manual for the Civil PE Exam

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

Addition of multiple-choice problems to better align with the exam

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