



# Structural Depth Reference Manual for the Civil PE Exam, 4th ed.

By Alan Williams PhD SE FICE C Eng

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The *Structural Depth Reference Manual* prepares you for the structural depth section of the Civil PE exam. It provides a concise, yet comprehensive review of the structural depth section exam topics and highlights the most useful equations in the exam-adopted codes and standards. Solving methods—including ASD and LRFD for steel, strength design for concrete, and ASD for timber and masonry—are thoroughly explained. Throughout the book, cross references connect concepts and point you to additional relevant tables, figures, equations, and codes. More than 95 example problems demonstrate the application of concepts and equations. Each chapter includes practice problems so you can solve exam-like problems, and the step-by-step solutions allow you to check your solution approach. A thorough index directs you to the codes and concepts you will need during the exam.

## Topics Covered

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



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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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