



# Structural Engineering Reference Manual

*Alan Williams PhD SE FICE C Eng*

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## **Structural Engineering Reference Manual** Alan Williams PhD SE FICE C Eng

The *Structural Engineering Reference Manual* is the most comprehensive reference and study guide available for engineers preparing for the NCEES 16-hour Structural PE exam. Nearly 40 practice problems with step-by-step solutions help you sharpen your problem solving skills, while demonstrating how to arrive at solutions most efficiently. Numerous charts, tables, and figures make it possible to work most exam problems using the reference manual alone. Quickly locate the important information you need to solve problems using the comprehensive index.

Because the Structural PE exam requires a thorough familiarity with relevant codes, the *Structural Engineering Reference Manual*, 5th Edition, is updated to the following:

- 2004 edition of PCI
- 2005 edition of ASCE 7
- 2005 edition of NDS
- 2005 editions of ACI 318 and ACI 530/530.1
- 2005 edition of AISC, *Steel Construction Manual*
- 2006 edition of IBC
- 2007 edition of AASHTO

### **Exam Topics Covered**

- Reinforced Concrete Design
- Timber Design
- Foundations & Retaining Structures
- Design of Reinforced Masonry
- Prestressed Concrete Design
- Seismic Design
- Structural Steel Design
- Design of Bridges

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