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Concrete Design for the Civil PE and Structural SE Exams, 2nd Edition

C. Dale Buckner PhD PE

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Concrete Design for the Civil PE and Structural SE Exams, 2nd Edition C. Dale Buckner PhD PE
An In-Depth Review of Concrete Design Methods and Standards

Concrete Design for the Civil PE and Structural SE Exams, Second Edition

An In-Depth Review of Concrete Design Methods and Standards
Concrete Design for the Civil PE and Structural SE Exams presents the concrete design and analysis methods most needed by civil and structural engineering students. The book's 12 chapters provide a concise but thorough review of concrete theory, code application, design principles, and structural analysis. The 51 example problems demonstrate how to apply concepts, codes, and equations, and over 40 figures and tables provide essential support material. A complete nomenclature list defines the industry-standard variables and symbols used in each chapter.

This book includes code references to familiarize you with exam-adopted codes, such as ASCE7 and ACI 318. It also includes 35 multiple-choice problems and 2 scenario-based design problems to enhance your problem-solving skills. Each problem's complete solution lets you check your solving approach. On exam day, you can use this book's thorough index to quickly locate important codes and concepts.

Topics Covered

- Columns and Compression Members
- Continuous One-Way Systems
- Design Specifications
- Development of Reinforcement
- Flexural Design of Reinforced Concrete Beams
- Materials
- Prestressed Concrete
- Seismic Design of Reinforced Concrete Members
- Serviceability of Reinforced Concrete Beams
- Shear Design of Reinforced Concrete
- Two-Way Slab Systems

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