



An In-Depth Review of Concrete Design Methods and Standards

# Concrete Design

## for the Civil PE and Structural SE Exams

Second Edition



C. Dale Buckner, PhD, PE, SECB



# Concrete Design For The Civil Pe And Structural Se Exams

**C. Dale Buckner**



## **Concrete Design For The Civil Pe And Structural Se Exams:**

**Concrete Design for the Civil PE and Structural SE Exams** C. Dale Buckner, 2014 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 *Concrete Design for the Civil and Structural PE Exams* C. Dale Buckner, 2008 Concrete Design for the Civil and Structural PE Exams provides you with a thorough overview of the basic theories required to solve concrete design problems on the civil PE exam and the Structural I and II exams Easy to use lists of tables figures and concrete design nomenclature will help you to quickly locate important concrete design information Comprehensive concrete design review for the civil PE and structural PE exams Complete overview of required codes and standards over 130 figures that illustrate the acceptable structural design criteria Increase your problem solving speed and confidence with 37 practice problems 25 practice problems for the civil PE and Structural I exams 10 practice problems for the Structural I exam 2 scenario based practice problems for the Structural II exam Topics Covered Materials Design Specifications Flexural Design of Reinforced Concrete Beams Serviceability of Reinforced Concrete Beams Shear Design of Reinforced Concrete Columns and Compression Members Continuous One Way Systems Two Way Slab Systems Development of Reinforcement Prestressed Concrete Seismic Design of Reinforced Concrete Members **PPI Concrete Design for the PE Civil and SE Exams, 3rd Edition - A Comprehensive Review Book for the NCEES PE Civil and SE Exams** C. Dale Buckner, 2018-01-01 A Comprehensive Review Book for the NCEES PE Civil and SE Exams An in depth review of concrete design methods and standards Concrete Design for the PE Civil and SE Exams presents the concrete design and analysis methods most needed by civil and structural engineers The book s 12 chapters provide a concise but thorough review of concrete theory code application design principles and structural analysis It s multiple choice problems and scenario based design problems will

enhance your problem solving skills and 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.

**Key Features:** 51 example problems demonstrate how to apply concepts, codes and equations. Over 40 figures and tables provide essential support material. A complete nomenclature list defines the industry standard variables and symbols used in each chapter. Includes code references to familiarize you with the exam adopted codes such as ASCE 7 and ACI 318.

**Binding:** Paperback  
**Publisher:** PPI A Kaplan Company  
**Reinforced Concrete Design** Sayed Mahmoud, 2023-09-18

This book provides the reader with the fundamentals of analysis and design of reinforced concrete (RC) elements together with elements reinforcement details in a simple way. The book provides a valuable design guide for undergraduate civil and architectural engineering students. It can also act as a resource for recent graduates and practicing engineers. Throughout the book, the presented design procedures for structural elements provide a roadmap which enables students and practicing engineers to create their own programming codes to increase the productivity of their design practice.

**Principles of Structural Design**  
 Ram S. Gupta, 2019-06-17

Timber, steel and concrete are common engineering materials used in structural design. Material choice depends upon the type of structure, availability of material and the preference of the designer. The design practices, the code requirements of each material are very different. In this updated edition, the elemental designs of individual components of each material are presented together with theory of structures essential for the design. Numerous examples of complete structural designs have been included. A comprehensive database comprising materials properties, section properties, specifications and design aids has been included to make this essential reading.

**16-hour Structural Engineering (SE) Practice Exam for Buildings** Joseph S. Schuster, Simpson, Gumpertz & Heger, 2015

The Most Realistic Practice for the SE Exam. 16 Hour Structural Engineering (SE) Practice Exam for Buildings contains two 40 problem multiple choice breadth exams and two four essay depth exams consistent with the NCEES SE exam's format and specifications. Like the exam, this book's multiple choice problems require an average of six minutes to solve and the essay problems can be solved in one hour. Comprehensive step by step solutions for all problems demonstrate accurate and efficient problem solving approaches. The solutions to the depth exams essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit. The supplemental content uses black text to enhance your understanding of the solution process. 16 Hour Structural Engineering (SE) Practice Exam for Buildings will help you to prepare for all four exam components: connect relevant theory to exam like problems, identify accurate problem solving approaches, navigate the exam adopted codes and standards, solve problems under timed conditions.

**Referenced Codes and Standards:** AASHTO LRFD Bridge

Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures TMS 402 602 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE SEI7 National Design Specification for Wood Construction ASD LRFD NDS North American Specification for the Design of Cold Formed Steel Structural Members AISI PCI Design Handbook Precast and Prestressed Concrete PCI Seismic Design Manual AISC Special Design Provisions for Wind and Seismic with Commentary NDS SDPWS Steel Construction Manual AISC About the Author Joseph S Schuster SE PE is a practicing structural engineer licensed in New York New Jersey Connecticut and Illinois He obtained a bachelor of science in civil engineering from Cornell University and a master of science in structural engineering from Stanford University Mr Schuster works in New York City New York for the national engineering firm Simpson Gumpertz Heger Inc where he is involved in the structural design and renovation of steel concrete masonry and wood buildings He has also worked extensively on projects involving the repair and adaptive reuse of historic structures and has investigated several building collapses Simpson Gumpertz Heger SGH is a national engineering firm that designs investigates and rehabilitates structures and building enclosures SGH s award winning work includes building nuclear transportation water wastewater and science defense projects throughout the United States and in more than 30 other countries Also Available for Structural Engineering SE Exam Candidates Structural Engineering Reference Manual Structural Engineering Solved Problems Six Minute Solutions for Structural Engineering SE Exam Morning Breadth Problems Concrete Design for the Civil and Structural PE Exams Steel Design for the Civil and Structural PE Exams Timber Design for the Civil and Structural PE Exams     **PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam** Alan Williams, 2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural Reference Manual Tenth Edition STRM10 features include Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up to date codes for the October 2021 Exams Exam adopted codes and standards are frequently referenced and solving methods including strength design for timber and masonry are thoroughly explained 270 example problems Strengthen your problem solving skills by working the 52 end of book practice problems Each problem s complete solution lets you check your own solving approach Both ASD and LRFD SD solutions and explanations are provided for masonry problems allowing you to familiarize yourself with different problem solving methods Topics Covered Bridges Foundations and Retaining Structures Lateral Forces Wind and Seismic Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications AASHTO LRFD Bridge Design Specifications AASHTO

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**Design of Reinforced Concrete Structures** Alan Williams, 2004 Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination It offers 350 pages of text and 70 design problems with complete step by step solutions Topics covered Materials for Reinforced Concrete Limit State Principles Flexure of Reinforced Concrete Beams Shear and Torsion of Concrete Beams Bond and Anchorage Design of Reinforced Concrete Columns Design of Reinforced Concrete Slabs and Footings Retaining Walls and Piled Foundations An index is provided

*Structural Depth Reference Manual for the Civil PE Exam* Alan Williams, 2015 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

Civil Engineering License Review, 14th Edition Donald G. Newnan, 2003-09 A review specifically for the latest version of the Civil Engineering Professional Engineer Exam Covers exam topics in 12 sections Buildings Bridges Foundations and Retaining Structures Seismic Design Hydraulics Engineering Hydrology Water Treatment Distribution Wastewater Treatment Geotechnical Soils Engineering and Ideal for the new breadth depth exam A detailed discussion of the exam and how to prepare for it 335 essay and multiple choice exam problems with a total of 650 individual questions A complete 24 problem sample exam Updated for 1997 UBC and all of the latest codes Appendix on Engineering Economy Since some states do not allow books containing solutions to be taken into the CE PE Exam the end of chapter problems do not have the solutions in this book

**Civil Engineering Problems and Solutions** Donald G. Newnan, 2003-09-18 Written by 6 professors each with a Ph D in Civil Engineering A detailed description of the examination and suggestions on how to prepare for it 195 exam essay and multiple choice problems with a total of 510 individual questions A complete 24 problem sample exam A detailed

step by step solution for every problem in the book This book may be used as a separate stand alone volume or in conjunction with Civil Engineering License Review 14th Edition 0 79318 546 7 Its chapter topics match those of the License Review book All of the problems have been reproduced for each chapter followed by detailed step by step solutions Similarly the 24 problem sample exam 12 essay and 12 multiple choice problems is given followed by step by step solutions to the exam Engineers looking for a CE PE review with problems and solutions will buy both books Those who want only an elaborate set of exam problems a sample exam and detailed solutions to every problem will purchase this book 100% problems and solutions

*Bridge Design for the Civil and Structural Professional Engineering Exams* Robert H. Kim, Jai B. Kim, 2001 Elements of bridge design appear in problems on the civil and structural PE exams This book will help you solve these problems successfully The authors summarize the basics of bridge design for different types of loads using five design examples Two practice problems encourage you to test your design skills Step by step solutions are included

**The McGraw-Hill Civil Engineering PE Exam Depth Guide** M. Myint Lwin, Chyuan-Shen Lee, J. J. Lee, 2001 Designed to complement the McGraw Hill Civil Engineering PE Exam Guide Breadth and Depth this subject specific depth guide provides comprehensive coverage of the subject matter applicants will face in the afternoon portion of the PE exam Each book authored by an expert in the field will feature example problems from previous exams along with power study techniques for peak performance

Six-minute Solutions for Civil PE Exam Christine A. Subasic, 2004 Contains 100 multiple choice practice problems 20 for the morning module and 80 for the afternoon module for the structural topic on the civil PE exam Each problem is written to be solved in six minutes the average amount of time examinees will have on the exam

*PPI PE Structural 16-Hour Practice Exam for Buildings, 6th Edition - Practice Exam with Full Solutions for the NCEES PE Structural Engineering (SE) Exam* Joseph S Schuster, 2021-10-27 PE Structural 16 Hour Practice Exam for Buildings Sixth Edition offers comprehensive practice for the NCEES PE Structural SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural 16 Hour Practice Exam for Buildings Sixth Edition features include The Most Realistic Practice for the PE Structural Exam Two 40 problem multiple choice breadth exams Two four essay depth exams consistent with the NCEES PE Structural exam s format and specifications Multiple choice problems require an average of six minutes to solve Essay problems can be solved in one hour Comprehensive step by step solutions for all problems demonstrate accurate and efficient problem solving approaches Solutions to the depth exams essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit Supplemental content uses black text to enhance your understanding of the solution process Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO 8th Ed Building Code Requirements and Specification for Masonry Structures TMS 402 602 2016 Ed Building Code Requirements for Structural Concrete ACI 318 2014 Ed International Building Code IBC 2018 Ed Minimum Design Loads for Buildings and Other

Structures ASCE SEI7 2016 Ed National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS 2018 Ed Seismic Design Manual AISC 327 3rd Ed Special Design Provisions for Wind and Seismic with Commentary SDPWS 2015 Ed Steel Construction Manual AISC 325 15th Ed Structural Engineering Solved Problems : Comprehensive Practice for the Structural Engineering (SE) and Civil PE Exams C. Dale Buckner, 2015 Structural Engineering Solved Problems contains 100 practice problems representing a broad range of topics on the Structural Engineering SE and Civil PE exams Each problem provides an opportunity to apply your knowledge of structural engineering concepts The breadth of topics covered and the varied complexities of the problems allow you to assess and strengthen your problem solving skills Problems in both qualitative and quantitative formats are included and solutions use the same codes and standards adopted for the exam Step by step solutions are used to solve numerical problems and detailed explanations are given for qualitative problems Structural Engineering Solved Problems will help you to familiarize yourself with the exam topics connect relevant structural engineering theories to challenging problems navigate through exam adopted codes and standards identify accurate and efficient problem solving approaches Topics Covered Foundations and Retaining Structures Masonry Design Seismic Design Structural Analysis Structural Concrete Design Structural Steel Design Timber Design Codes and Standards Used in This Book AASHTO LRFD Bridge Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures ACI 530 530 1 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE SEI7 National Design Specification for Wood Construction ASD LRFD NDS PCI Design Handbook Precast and Prestressed Concrete PCI Seismic Design Manual AISC 325 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 327 North American Specification for the Design of Cold Formed Steel Structural Members AISI *PPI Structural Depth Practice Exams for the PE Civil Exam, 4th Edition eText - 1 Year* James Giancaspro, 2017-10-30 Two Realistic 40 Problem Structural Depth Exams Structural Depth Practice Exams for the PE Civil Exam contains two 40 problem multiple choice exams consistent with the NCEES PE Civil structural depth exams format and specifications Like the actual exam the problems in this book require an average of six minutes to solve Comprehensive step by step solutions demonstrate accurate and efficient problem solving approaches Author commentary is provided in the solutions to explain time saving shortcuts and common pitfalls Structural Depth Practice Exams will help you Effectively familiarize yourself with the exam scope and format Quickly identify accurate and efficient problem solving approaches Successfully connect relevant theory to exam like problems Efficiently navigate through exam adopted codes and standards Confidently solve problems under timed conditions Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures ACI 530 530 1 13 Building Code Requirements for Structural Concrete ACI 318 Minimum Design Loads for Buildings and Other Structures ASCE SEI7



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AISC Seismic Provisions Cites extensive reference publications that reflect current design procedures      Civil & structural  
engineering Alan Williams, 2012 Assists civil engineers preparing for the structural engineering licensing exams

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