

PE Civil

Reference Manual

Sixteenth Edition

The **PE Civil Reference Manual** is the most comprehensive textbook for the NCEES PE Civil exam. This book's time-tested organization and clear explanations start with the basics to help you get up to speed with common civil engineering concepts. Together, the 50 chapters provide an in-depth review of all of the topics, codes, and standards listed in the NCEES-PE Civil exam specifications. The extensive index contains thousands of entries, with multiple entries included for each topic, so you can easily find the codes and concepts you will need during the exam.

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About the Author

Michael R. Lindburg, PE, is one of the best-known authors of engineering textbooks and references. His books and courses have influenced millions of engineers around the world. Since 1975, he has authored more than 40 engineering reference and exam preparation books. He has spent thousands of hours teaching engineering to students and practicing engineers. He holds bachelor of science and master of science degrees in industrial engineering from Stanford University.

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Structural Depth Section The Structural Depth Reference Manual for the PE Civil Exam prepares you for the structural depth section of the PE Civil 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 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 Referenced Codes and Standards Building Code Requirements and Specifications for Masonry Structures and Companion Commentaries 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 Steel Construction Manual AISC Key Features A robust index to facilitate quick referencing during the PE Civil Exam Highlights the most useful equations in the exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company PPI PE Civil Study Guide, 17th Edition Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg s PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI s civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI s reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth Reference Manual for the PE Civil Exam Water Resources and Environmental Depth Reference Manual for the PE Civil Exam Referenced Codes and Standards 2015 International Building Code ICC A Policy on Geometric Design of Highways Streets AASHTO AASHTO Guide for Design of Pavement Structures AASHTO AASHTO LRFD Bridge Design Specifications Building Code Requirements Specification for Masonry Structures ACI 530 Building Code Requirements for Structural Concrete Commentary ACI 318 Design Construction of Driven Pile Foundations FHWA Design Construction of Driven Pile Foundations Volume I FHWA Design Control of Concrete Mixtures PCA Design Loads on

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references you'll need most on exam day Then you can easily evaluate your performance by using the two individual answer keys Key Features Consistent with the exam scope and format Learn accurate and efficient problem solving approaches Connect relevant theory to exam like problems Solve problems in an exam like timed setting Binding Paperback Publisher PPI A Kaplan Company **PPI Water Resources and Environmental Depth Reference Manual for the Civil PE Exam eText - 1 Year** Jonathan Brant, Gerald J. Kauffman, 2011-07-01 The Water Resources and Environmental Depth Reference Manual for the Civil PE Exam prepares you for the water resources and environmental depth section of the NCEES PE Civil Water Resources and Environmental Exam It provides a complete introduction to the water resources and environmental depth section of the Civil PE exam with clear easy to understand explanations of water resources and environmental engineering concepts The comprehensive reference manual includes example problems that demonstrate how concepts are applied and end of chapter problems for independent practice Plus the detailed tables figures and appendices are a great resource for solving the example problems Topics covered Activated Sludge Environmental Remediation Groundwater Engineering Hazardous Waste and Pollutants Hydraulics Closed Conduit Hydraulics Open Channel Hydrology Waste and Wastewater Composition and Chemistry Wastewater Wastewater Treatment Water Treatment Key features An overview of the Ten States Standards 115 solved example problems 101 exam like end of chapter problems with complete solutions 230 equations 65 tables 102 figures and 8 appendices An easy to use index Binding Paperback Publisher PPI A Kaplan Company

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PPI Six-Minute Solutions for Civil PE Exam Geotechnical Depth Problems, 3rd Edition
eText - 1 Year Bruce A. Wolle, 2015-03-18 Targeted Training for Solving Civil PE Exam Geotechnical Depth Multiple Choice Problems Six Minute Solutions for Civil PE Exam Geotechnical Depth Problems contains 102 multiple choice problems that are grouped into ten chapters Each chapter corresponds to a topic on the NCEES PE Civil exam geotechnical depth section Like the PE exam an average of six minutes is required to solve each problem in this book Each problem also includes a hint that provides optional problem solving guidance Topics Covered Deep Foundations Earth Retaining Structures Earth Structures Earthquake Engineering and Dynamic Loads Field Materials Testing Methods and Safety Groundwater and Seepage Problematic Soil and Rock Conditions Shallow Foundations Site Characterization Soil Mechanics Lab Testing and Analysis Referenced Design Standards Minimum Design Loads for Buildings and Other Structures ASCE 7 Safety and Health Regulations for Construction OSHA 29 CFR Part 1926 Key Features Problems are representative of the exam s format scope of topics and level of difficulty Connect relevant theory to exam like problems Comprehensive step by step solutions for all problems demonstrate accurate and efficient solving approaches Organize the codes and references you will use on exam day Binding Paperback Publisher PPI A Kaplan Company

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