

Construction Depth Reference Manual for the Civil PE Exam

Second Edition

Construction Depth Reference Manual prepares you for the construction depth section of the NCEES Civil PE exam. All depth topics are covered, and exam-adopted codes and standards are frequently referenced. You will learn how to apply concepts by reviewing the 52 example problems, and you can check your solving approaches by reviewing each problem's step-by-step solution.

Access to supportive information is just as important as knowledge and problem-solving efficiency. The Construction Depth Reference Manual's thorough index easily directs you to the codes and concepts you will need during the exam. Cross references to the 214 equations, 43 tables, 100 figures, 5 appendices, and relevant codes will point you to additional support material when you need it.

Topics Covered

- Construction Operations and Methods
- Earthwork Construction and Layout
- Estimating Quantities and Costs
- Health and Safety
- Material Quality Control and Production
- Scheduling
- Temporary Structures

Referenced Codes and Standards

- Building Code Requirements for Structural Concrete (ACI 318)
- Construction Industry Regulations (CIRIA)
- Design Loads on Structures During Construction (ASCE 10)
- Framework for Concrete (ACI SP-4)
- Guide to Formwork for Concrete (ACI 347R)
- Manual on Uniform Traffic Control Devices (MUTCD-Pl 6)
- National Design Specification for Wood Construction (NDS)
- Standard Practice for Bracing Masonry Walls Under Construction (CSM18)
- Steel Construction Manual (AISC)

About the Author

Thomas M. Kornman, PhD, PE, PLS, holds a bachelor of science degree in civil engineering from California Polytechnic State University, San Luis Obispo, and master of science and doctoral degrees in construction engineering and management from Stanford University. Before joining the faculty at Cal Poly in 2000, Dr. Kornman worked for several public agencies, consulting engineering firms, and construction companies on civil infrastructure and capital improvement projects, from contract through construction. Dr. Kornman is a licensed professional engineer and land surveyor in California and holds several certifications from the American Concrete Institute.

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- Construction Depth Practice Exams for the Civil PE Exam
- Six-Minute Solutions for Civil PE Exam Construction Problems
- Civil Engineering Reference Manual for the PE Exam

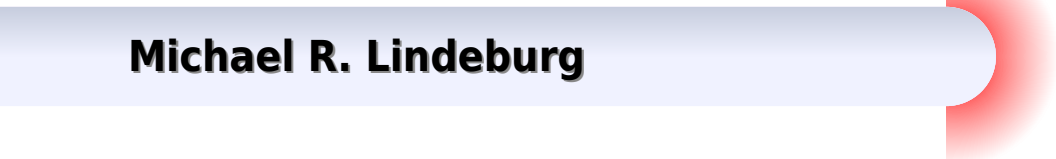
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minutes to solve Comprehensive step by step solutions demonstrate accurate and efficient problem solving approaches Plus author commentary is provided in the solutions explaining time saving shortcuts and common pitfalls Taking each exam in this book within the actual exam s four hour time limit will simulate exam conditions enhance your time management skills and help you identify which references you ll need most on exam day Once complete you can easily evaluate your performance by using the two individual answer keys Topics Covered Construction Operations and Methods Earthwork Construction and Layout Estimating Quantities and Costs Health and Safety Material Quality Control and Production Scheduling Temporary Structures 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 under exam like timed conditions 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 Structures During Construction ASCE 37 Formwork for Concrete ACI SP 4 Foundations Earth Structures Design Manual 7 02 Geotechnical Aspects of Pavements FHWA Guide for the Planning Design Operation of Pedestrian Facilities AASHTO Guide to Design of Slabs on Ground ACI 360R Guide to Formwork for Concrete ACI 347R Highway Capacity Manual TRB Highway Safety Manual AASHTO Hydraulic Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural Foundations Reference Manual FHWA Manual on Uniform Traffic Control Devices FHWA Minimum Design Loads for Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction

AWC Occupational Safety Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater Facilities TSS Roadside Design Guide AASHTO Soils Foundations Reference Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code Steel AWS

Civil Engineer's Reference Book L S Blake, 1994-03-21 After an examination of fundamental theories as applied to civil engineering authoritative coverage is included on design practice for certain materials and specific structures and applications A particular feature is the incorporation of chapters on construction and site practice including contract management and control

PPI Six-Minute Solutions for Civil PE Exam: Construction Depth Problems eText - 1 Year Elaine Huang, 2016-12-28 Targeted Training for Solving Civil PE Exam Construction Depth Multiple Choice Problems Six Minute Solutions for Civil PE Exam Construction Depth Problems contains over 100 multiple choice problems that are grouped into seven chapters that correspond to a topic on the PE Civil exam construction depth section Problems are representative of the exam s format scope of topics and level of difficulty Like the PE exam an average of six minutes is required to solve each problem in this book Each problem also includes a hint for optional problem solving guidance Comprehensive step by step solutions for all problems demonstrate accurate and efficient solving approaches Get your Construction Depth Reference Manual index at ppi2pass.com/downloads Topics Covered Construction Operations and Methods Earthwork Construction and Layout Estimating Quantities and Costs Health and Safety Material Quality Control and Production Scheduling Temporary Structures Key Features Increase familiarity with the exam problems format content and solution methods Connect relevant theory to exam like problems Quickly identify accurate problem solving approaches Organize the references you will use on exam day Binding Paperback Publisher PPI A Kaplan Company

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Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications 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 7 National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction 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 327 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 325 The Complete NPA User's Manual John F. Clark, 2005 **21st Century**

Psychology: A Reference Handbook Stephen F. Davis, William Buskist, 2007-12-17 Via 100 entries 21st Century Psychology A Reference Handbook highlights the most important topics issues questions and debates any student obtaining a degree in the field of psychology ought to have mastered for effectiveness in the 21st century This two volume reference resource available both in print and online provides an authoritative source to serve students research needs with more detailed information than encyclopedia entries but without the jargon detail or density found in a typical journal article or a research handbook chapter Students will find chapters contained within these volumes useful as aids toward starting research for papers presentations or a senior thesis assisting in deciding on areas for elective coursework or directions for graduate studies or orienting themselves toward potential career directions in psychology The cadre of contributing authors consists of established experts within the field of psychology including several former presidents of the American Psychological Association who are in tune with current and likely future directions of this amazingly broad and diverse field The 100 chapters provide material of interest for students from all corners of psychological studies whether their interests be in the biological cognitive developmental social or clinical arenas Coverage includes cutting edge topics such as human performance in extreme environments Chapters are brief reader friendly and presented at an appropriate level for undergraduate students with references to guide them to key further readings Key Features Provides students with initial footholds on topics of interest in researching for term papers in preparing for GREs and in consulting to determine directions to take in pursuing a senior thesis a graduate degree a career etc Offers full coverage of major subthemes and subfields within the field of psychology including social developmental cognitive biological clinical and methodology Provides uniform in chapter structure to make it easy for students to locate key information with a common format of Introduction Theory Methods Applications Comparisons Future Directions Summary References Further Readings and Cross References *PPI NCIDQ Interior Design Reference Manual, Seventh Edition eText - 1 Year* David Kent Ballast, 2021-06-18 Comprehensive review for all three exam sections The Interior Design Reference Manual by David Ballast covers all three sections of the NCIDQ exams Pass your exams the first time with comprehensive reading materials on all topics The NCIDQ Interior Design

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