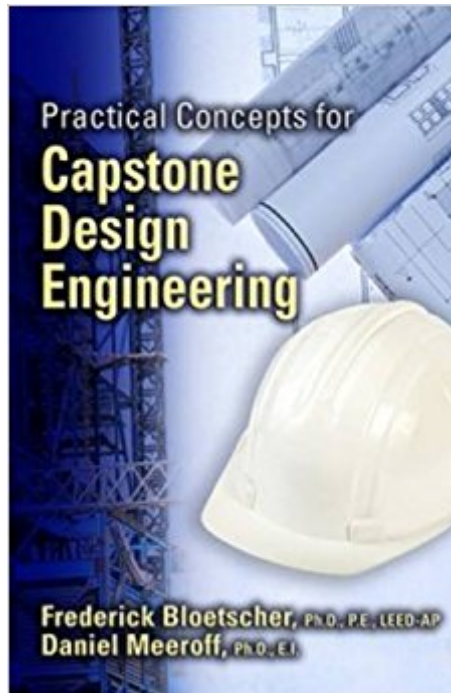




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Practical Concepts For Capstone Design Engineering



Synopsis

Practical Concepts for Capstone Design Engineering is the first and only comprehensive senior-level college textbook that provides the essential information needed to complete a successful capstone project in civil, construction, or environmental engineering. The concept for the book is based on replication of the steps commonly used by practicing engineers to complete design projects, from site selection, investigation, and site planning, through the preliminary design calculations and drawing preparation. The authors also provide professional quality work examples, case studies, helpful hints, and assignments at the end of each chapter that further enhance comprehension. KEY FEATURES: --Offers valuable insight and preparation for civil and construction engineering professional practice --Transitions students from strictly academic work to solving real-world problems in the context of their capstone projects --Offers an approach for integrating students, faculty, design professionals, clients, consultants and regulators--bridging the gap between the classroom and the profession --Students will be well prepared for the Fundamentals of Engineering Exam upon graduation --WAV offers professor materials including a capstone syllabus, final exam, and instructional slides reviewing concepts presented in the text--available from the Web Added Value Download Resource Center at jrosspub.com

Book Information

Hardcover: 424 pages

Publisher: J Ross Publishing (July 31, 2015)

Language: English

ISBN-10: 1604271140

ISBN-13: 978-1604271140

Product Dimensions: 7 x 1.1 x 10.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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Until now, there has not been a textbook for civil, construction, and environmental engineering capstone design courses that is as complete as Practical Concepts for Capstone Design

Engineering. This book offers great value for professors and students. --Sharon C. Long, Ph.D., Professor, University of Wisconsin
This book is a much needed resource for the Senior Capstone Design Course, a requirement of ABET accredited engineering curriculums. It provides the structure that is sometimes lacking in open-ended courses and serves as a platform from which faculty and students can communicate expectations for the senior design process. --Helena Solo-Gabriele, Ph.D., P.E., Professor, University of Miami

Practical Concepts for Capstone Design Engineering is the first and only comprehensive senior-level college textbook that provides the essential information needed to complete a successful capstone project in civil or construction engineering. Students will gain valuable insight and preparation for civil and construction engineering professional practice, and will learn how to smoothly transition from strictly academic work to solving real-world problems in the context of their capstone projects. The authors provide professional quality work examples, case studies, helpful hints, and assignments at the end of each chapter that further enhance comprehension. In addition to providing students with the key skills necessary to successfully enter the profession, they will also be well prepared for the Fundamentals of Engineering Exam upon graduation. Key Features: Replicates the steps used by practicing engineers to complete design projects from site selection, investigation, and site planning, through the preliminary design calculations and drawing preparation. Offers an approach for integrating students, faculty, design professionals, clients, consultants and regulators bridging the gap between the classroom and the profession with astounding results Provides faculty with a framework for developing an effective capstone course, including examples of grading and rubric sheets for student presentations Appropriate for adoption as primary or supplemental reading in other engineering and construction courses as well

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