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Environmental Engineering

Principles of Environmental Engineering and Science, 3/e

Mackenzie Davis

Published 01/18/2013

ISBN: 978-007339790-0 / 832 pp.

ISBN: 978-1-259-06047-2 (IE)

Principles of Environmental Engineering is intended for a course in introductory environmental engineering for sophomore- or junior-level students. This text provides a background in fundamental science and engineering principles of environmental engineering for students who may or may not become environmental engineers. Principles places more emphasis on scientific principles, ethics, and safety, and focuses less on engineering design. The text exposes students to a broad range of environmental topics—including risk management, water quality an treatment, air pollution, hazardous waste, solid waste, and ionizing radiation as well as discussion of relevant regulations and practices. The book also uses mass and energy balance as a tool for understanding environmental processes and solving environmental engineering problems. This new edition includes an optional chapter on Biology as well as a thorough updating of environmental standards and a discussion of how those standards are created.

www.mhhe.com/davis

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Introduction to Environmental Engineering, 5/e

Mackenzie Davis and David Cornwell

Published 01/31/2012

ISBN: 978-0-07-340114-0 / 1024 pp.

ISBN: 978-0-07-132624-7 (IE)

Introduction to Environmental Engineering, 5/e contains the fundamental science and engineering principles needed for introductory courses and used as the basis for more advanced courses in environmental engineering.

Updated with latest EPA regulations, Davis and Cornwell apply the concepts of sustainability and materials and energy balance as a means of understanding and solving environmental engineering issues.

With over 720 end-of-chapter problems, as well as provocative discussion questions, and a helpful list of review items found at the end of each chapter, the text is both a comprehensible and comprehensive tool for any environmental engineering course.

Standards and Laws are the most current and up-to-date for an environmental engineering text.

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Numerical Methods

Applied Numerical Methods W/MATLAB, 3/e

Steven Chapra

Published 01/27/2011

ISBN: 978-0-07-340110-2 / 672 pp.

ISBN: 978-0-07-108618-9 (IE)

Steven Chapra's *Applied Numerical Methods with MATLAB*, third edition, is written for engineering and science students who need to learn numerical problem solving. Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB. The book is designed for a one-semester or one-quarter course in numerical methods typically taken by undergraduates. The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m-files and instructor materials.

www.mhhe.com/chapra

Construction Management

Estimating Construction Costs, 6/e

Robert Peurifoy and Garold Oberlender

Published 01/18/2013

ISBN: 978-0-07-339801-3 / 608 pp.

ISBN: 978-1-259-01082-8 (IE)

In preparing the sixth edition of *Estimating Construction Costs* the author has retained the fundamental concepts of estimating that have made the book successful for many years. All of the example problems have been revised with more explanations regarding assumptions used in the calculations. This edition has reorganized and consolidated chapters to increase the clarity of the subject matter for the reader. Extensive new sections have been added on equipment, including graders equipped with GPS, and methods of calculating depreciation, investment, and operating costs of construction equipment. The computer estimating chapter is revised with additional material on the use of computers in preparing estimates for bidding purposes.

www.mhhe.com/peurifoy_oberlender6e

Statics & Dynamics

Vector Mechanics for Engineers: Statics & Dynamics, 10/e

Ferdinand P. Beer,
E. Russell Johnston, Jr.,
David Mazurek, and
Phillip J. Cornwell

Published 01/12/2012

ISBN: 978-0-07-339813-6 / 1392 pp.

Continuing in the spirit of its successful previous editions, the tenth edition of Beer, Johnston, Mazurek, and Cornwell's *Vector Mechanics for Engineers* provides conceptually accurate and thorough

coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students. Nearly forty percent of the problems in the text are changed from the previous edition. The Beer/Johnston textbooks introduced significant pedagogical innovations into engineering mechanics teaching. The consistent, accurate problem-solving methodology gives your students the best opportunity to learn statics and dynamics. At the same time, the careful presentation of content, unmatched levels of accuracy, and attention to detail have made these texts the standard for excellence.

www.mhhe.com/beerjohnston

Supplements:

- Connect Engineering
- Connect Plus Engineering
- COSMOS
- Instructor's Resource Manual
ISBN: 978-0-07-750834-0
- Instructor's Solutions Manual
ISBN: 978-0-07-750836-4

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Engineering Mechanics: Statics and Dynamics, 2/e

Michael Plesha, Gary Gray, and
Francesco Costanzo

Published 03/19/2012

ISBN: 978-0-07-338031-5 / 1504 pp.

The Problem Solver's Approach for Tomorrow's Engineers. Based upon a great deal of classroom teaching experience, Plesha, Gray, and Costanzo provide a visually appealing learning framework to your students. The look of the presentation is modern, like the other books the students have experienced, and the presentation itself is relevant, with examples and exercises drawn from the world around us, not the world of sixty years ago. Examples are broken down in a consistent manner that promotes students' ability to setup a problem and easily solve problems of incrementally harder difficulty.

www.mhhe.com/pgc2e

Supplements:

- Connect Engineering
- Connect Plus Engineering

Statics

Vector Mechanics for Engineers: Statics, 10/e

Ferdinand P. Beer,
E. Russell Johnston, Jr.,
and David Mazurek

Published 01/13/2012

ISBN: 978-0-07-740228-0 / 672 pp.

ISBN: 978-1-259-00792-7 (SI Metric)

Continuing in the spirit of its successful previous editions, the tenth edition of Beer, Johnston, Mazurek, and Cornwell's *Vector Mechanics for Engineers* provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students. Nearly forty percent of the problems in the text are changed from the previous edition. The Beer/Johnston textbooks introduced significant pedagogical innovations into engineering mechanics teaching. The consistent, accurate problem-solving methodology gives your students the best opportunity to learn statics and dynamics. At the same time, the careful presentation of content, unmatched levels of accuracy, and attention to detail have made these texts the standard for excellence.

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Supplements:

- Connect Engineering
- Connect Plus Engineering
- COSMOS

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Engineering Mechanics: Statics, 2/e

Michael Plesha, Gary Gray, and
Francesco Costanzo

Published 01/24/2012

ISBN: 978-0-07-338029-2 / 736 pp.
ISBN: 978-1-259-01120-7 (SI Metric)

Based upon a great deal of classroom teaching experience, Plesha, Gray, & Costanzo provide a visually appealing, "step-by-step" learning framework. The presentation is modern, up-to-date and student centered, and the introduction of topics and techniques is relevant, with examples and exercises drawn from the world around us and emerging technologies. Every example problem is broken down in a consistent "step-by-step" manner that emphasizes a "Problem Solver's Approach" which builds from chapter to chapter and moves from easily solved problems to progressively more difficult ones.

www.mhhe.com/pgc2e

Supplements:

- Connect Engineering

Dynamics

Engineering Mechanics: Dynamics, 2/e

Michael Plesha, Gary Gray, and
Francesco Costanzo

Published 03/19/2012

ISBN: 978-0-07-734587-7
ISBN: 978-1-259-01121-4 (SI Metric)

Gray, Costanzo, & Plesha's *Engineering Mechanics, 2e* is the Problem Solver's Approach for Tomorrow's Engineers. Based upon a great deal of classroom teaching experience, Gray, Costanzo, & Plesha provide a visually appealing learning framework to your students. The look of the presentation is modern, like the other books the students have experienced, and the presentation itself is relevant, with examples and exercises

drawn from the world around us, not the world of sixty years ago. Examples are broken down in a consistent manner that promotes students' ability to setup a problem and easily solve problems of incrementally harder difficulty. Engineering Mechanics is also accompanied by McGraw-Hill's Connect which allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the students' work. Most problems in Connect are randomized to prevent sharing of answers and most also have a "multi-step solution" which helps move the students' learning along if they experience difficulty. Engineering Mechanics, 2e by Gray, Costanzo, & Plesha a new dawn for statics and dynamics.

www.mhhe.com/pgc2e

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Vector Mechanics for Engineers: Dynamics, 10/e

Ferdinand P. Beer,
E. Russell Johnston, Jr., and
Phillip J. Cornwell

Published 01/12/2012

ISBN: 978-0-07-740232-7 / 800 pp.
ISBN: 978-1-259-00793-4 (SI Metric)

Continuing in the spirit of its successful previous editions, the tenth edition of Beer, Johnston, Mazurek, and Cornwell's *Vector Mechanics for Engineers* provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students. Nearly forty percent of the problems in the text are changed from the previous edition. The Beer/Johnston textbooks introduced significant pedagogical innovations into engineering mechanics teaching. The consistent, accurate problem-solving methodology gives your students the best opportunity to learn statics and dynamics. At the same time, the careful presentation of content, unmatched levels of accuracy, and

attention to detail have made these texts the standard for excellence.

www.mheducation.asia/olc/beerjohnston

Supplements:

- Connect Engineering
- Connect Plus Engineering
- COSMOS

Water Resources

Water Treatment Plant Design, 5/e

American Water Works and American
Society of Civil Engineers

Published 05/21/2012

ISBN: 978-0-07-174572-7 / 912 pp.

The definitive water treatment plant design reference for more than 70 years—fully updated. Thoroughly revised to include new information on sustainability, the latest technologies, and the most current standards and codes, *Water Treatment Plant Design*, Fifth Edition provides unsurpassed coverage of water treatment plant design topics. This authoritative resource is written by a team of water treatment plant design experts, with contributions from more than 30 international authorities. The book offers comprehensive guidance on modernizing existing water treatment facilities and planning new ones—from initial plans and permits through design, construction, and start-up.

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Alternative Water Sources and Wastewater Management, 1/e

E.W. Bob Boulware

Published 09/17/2012

ISBN: 978-0-07-171951-3 / 384 pp.

Alternative Water Sources and Wastewater Management explains various alternative ways of obtaining water, including rainwater catchment, solar stills, reclaiming air conditioning condensate, and bore hole design. Less polluting ways of waste

management by means of composting toilets, grey water recycling, leach field gardens, new septic field design, urine recapture as fertilizer, and more are also discussed. This timely guide illustrates the limitations of existing water sources as a consequence of increased demand from an expanding world and the increased pollution of available water sources. The book gathers available knowledge from scattered sources worldwide into a condensed and coordinated source of information offering illustrations, current examples, and calculations, with the purpose of providing guidance on how to better manage this limited resource. The latest on ecologically conscious water and waste management

- A resource for cutting-edge green design techniques
- Describes rainwater catchment methods and design with installation codes from (IAPMO) International Association of Plumbing and Mechanical officials
- Illustrates off-grid systems for wastewater treatment
- Describes new net zero plumbing solutions from Europe
- Serves as a green design (LEED) technical resource for architects and engineers

Complete coverage:

Water Cycle Water Sources; Springs; Air Conditioning Condensate Recovery; Dew Harvesting; Fog Harvesting; Glacier Water Harvesting; Rainwater Catchment; Solar Water Still; Gray Water Systems; Water Quality; Ground Water Recharge; Aquatic Plants as Waste Management System; Biological Filters and Constructed Wetlands Blackwater Recycling Systems; Septic Field; Latrines and Privies; Composting Toilets

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Membrane Processes for Water Reuse, 1/e

Anthony Wachinski

Published 10/15/2012

ISBN: 978-0-07-174895-7 / 464 pp.

Proven, cost-effective solutions to water and wastewater reuse challenges

Membrane Technologies for Water Reuse is a complete guide to membrane technology applied to water reuse/recycling. Membrane processes used in wastewater recycling include both pressure-driven and electrically driven processes. Pressure-driven processes include microfiltration, ultra filtration, and reverse osmosis. Electrically driven processes include electro dialysis reversal and electro deionization. All of these are covered in the book with examples and applications. Membrane Technologies for Water Reuse

- Covers most design and application issues
- Includes example problems that illustrate the concepts presented in the book
- Contains wastewater reuse case studies
- Helps process engineers select and size membrane processes to meet reuse water quality
- Enables regulators to make informed decisions on industrial wastewater discharge alternatives
- Assists industry plant owners in making cost-effective decisions on how to best handle discharges
- Helps municipal wastewater treatment plant managers identify reuse alternatives, recoup treatment costs, meet or exceed regulatory requirements, and make cost-effective decisions

Water Wasterwater

Wastewater Engineering: Treatment and Reuses, 5/e

Metcalf & Eddy, Inc.

Published 09/06/2013

ISBN: 978-0-07-340118-8

ISBN: 978-1-259-01079-8 (IE)

Wastewater Engineering: Treatment and Reuse, 5/e is a thorough update of McGraw-Hill's authoritative book on wastewater treatment. No environmental engineering professional or civil or and environmental engineering major should be without a copy of this book- it describes the technological and regulatory changes that have occurred over the last ten years in this discipline, including: improved techniques for the characterization of wastewaters; improved fundamental understanding of many of the existing unit operations and processes used for wastewater treatment, especially those processes used for the biological removal of nutrients; greater implementation of several newer treatment technologies (e.g., UV disinfection, membrane filtration, and heat drying); greater concern for the long term health and environmental impacts of wastewater constituents; greater emphasis on advanced wastewater treatment and risk assessment for water reuse applications; changes in regulations and the development of new technologies for wastewater disinfection; and new regulations governing the treatment, reuse, and disposal of sludge (biosolids). Greater concern for infrastructure renewal including upgrading the design and performance of wastewater treatment plants.

This revision contains a strong focus on advanced wastewater treatment technologies and stresses the reuse aspects of wastewater and biosolids.

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Desalination Engineering: Planning and Design, 1/e

Nikolay Voutchkov

Published 11/30/2012

ISBN: 978-0-07-177715-5 / 688 pp.

Published with the Water Environment Federation and WateReuse Association, this is a comprehensive, one-volume engineering reference on desalination.

Desalination Engineering Planning Design and Operation covers all aspects of desalination project implementation—including planning and cost estimating, design, and equipment selection. After an overview of all key contemporary desalination technologies, the book focuses on reverse osmosis membrane desalination, which at present is the most widely applied technology for production of fresh drinking water from highly saline water sources.

- Offers theoretical principles of desalination and their practical application
- Presents a step-by-step approach for selection, design, and cost estimating of key desalination plant treatment components
- Contains examples in each chapter illustrating various technologies and their implementations
- Explains how to troubleshoot typical desalination plant operational challenges and operate desalination plants more efficiently

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Safety Health and Security in Wastewater Systems, 6/e

Water Environment Federation

Published 09/03/2012

ISBN: 978-0-07-178093-3 / 480 pp.

The Definitive Guide to Safety for the Wastewater Industry

Safety, Health, and Security in Wastewater Systems, Sixth Edition, provides the critical information necessary for regulatory compliance, reduction of liability, reduction of costs, and prevention of injury and illness. Complete details on biological hazards, confined space entry, personal protective equipment, safe work procedures, hazardous waste management, and other essential topics are included. The most comprehensive volume on the subject available, this Water Environment Federation resource is based on real-world experience and best work practices. Coverage includes:

- Introduction to health and safety
- Safety and health programs
- Identifying and predicting hazards
- Safety and health in wastewater treatment plant operation
- Safety and health in wastewater treatment plant maintenance
- Safety and health in sewer collections and remote locations
- Commercial and powered industrial vehicles
- Biological hazards at wastewater treatment facilities
- Hazardous materials and waste management
- Personal protective equipment
- Coordination with other agencies and officials
- Security and emergency preparedness

Foundations

Geotechnical Engineers Portable Handbook, 2/e

Robert Day

Published 03/08/2012

ISBN: 978-0-07-178971-4 / 1088 pp.

Fully updated to include the 2012 International Building Code (IBC), *Geotechnical Engineer's Portable Handbook*, Second Edition, features a wealth of on-the-job geotechnical and

construction-related information in a convenient, quick-reference format. This practical resource is filled with essential data, formulas, and guidelines you can access right away. Detailed tables, charts, graphs, and illustrations are included throughout the book for ease of use in the field.

Supplements:

- Geotechnical Engineers Portable Handbook 2/E (EBOOK) ISBN: 0-07-178972-3

Civil Engineering Systems

Plumber's Licensing Study Guide, 3/e

Michael Frankel and

R. Woodson

Published 09/24/2012

ISBN: 978-0-07-179807-5 / 240 pp.

A single book that can be used by both Master Plumbers and Journeyman Plumbers to help pass licensing exams!

Plumber's Licensing Study Guide, Third Edition is a single-source study guide that can be used by both Master Plumbers and Journeyman Plumbers to pass licensing exams. The book contains definitions, administrative policies, procedures, and study tips and covers nomenclature, details about the various plumbing systems, and information relevant to the latest International Plumbing Code (2012). You'll find all of the information you need, including detailed explanations, practice questions and answers, and Code alerts, to fully prepare you to take the plumber's licensing exam—and pass it on the first try!

- Fully updated for the 2012 International Plumbing Code
- New and revised text and test questions
- Improved study tips throughout

Complete coverage of all exam topics

Definitions; Administrative Policies; Miscellaneous Regulations; Water Supply; Water Heaters; Fixtures; Sanitary Drainage; Indirect Wastes; Vents; Storm Water Drainage; Traps, Cleanouts, and Special Wastes; Interceptors & Separators; Special Piping and Storage Systems; Medical and Non-medical Gas Systems; Alternative Engineered & Special Systems; Gray Water Recycling Systems; Guide to Taking the Test; Calculations and Conversions

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Trenchless Technology, 1/e

Mohammad Najafi

Published 11/16/2012

ISBN: 978-0-07-176245-8 / 496 pp.

1. Introduction to Trenchless Technology and Cost Estimating and Scheduling
2. Life Cycle Cost Analysis
3. Effects of Different Project Delivery Methods on Costs and Schedule
4. Different Types of Cost Estimating and Scheduling
5. Budget Estimating
6. Quantity Takeoff
7. Preconstruction Services
8. Pricing Self-performed and subcontractor Work
9. Cost Estimating and Scheduling for New Pipe Installations
10. Conventional Pipe Jacking and Utility Tunneling
11. Horizontal Auger Boring
12. Microtunneling
13. Pipe Ramming
14. Horizontal Directional Drilling
15. Pilot Tube Microtunneling

- 16. Cost Estimating and Scheduling for Existing Pipe Renewals
- 17. CIPP
- 18. Sliplining
- 19. Close-fit Pipe
- 20. Modified Sliplining
- 21. Thermoformed Pipe
- 22. Cost Estimating and Scheduling for Pipe Replacement Methods
- 23. Cost Estimating and Scheduling for Manhole Renewals
- 24. Project Closeout and Delivery Requirements

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Civil Engineering PE Practice Exams: Breadth and Depth, 1/e

Indranil Goswami

Published 01/19/2012

ISBN: 978-0-07-177711-7 / 352 pp.

Presented in the Breadth and Depth format of the actual exam, this comprehensive guide is filled with hundreds of realistic practice questions based on the Principles and Practice of Civil Engineering (PE-CIVIL) exam, given by the National Council of Examiners for Engineering and Surveying (NCEES). Detailed solutions, including equations and diagrams, are provided for every question. *Civil Engineering PE Practice Exams* offers intensive test preparation and is the perfect companion to *Civil Engineering PE All-in-One Exam Guide*.

Transportation

Airport Systems: Planning, Design and Management, 2/e

Richard de Neufville, Amedeo Odoni,
Peter Belobaba, and Tom Reynolds

Published 01/15/2013

ISBN: 978-0-07-177058-3 / 832 pp.

Written by leading technical professionals, known worldwide for their expertise in the planning, design, and management of airports.

Airport Systems: Planning, Design and Management, Second Edition is an in-depth guide to creating effective and efficient airports. To achieve this objective, professionals need to consider the whole problem, from the initial planning, through the design of the facilities, to the ultimate management and operation of the airport. Ideal for professionals and students alike, the book focuses on medium and large commercial airports. Major development topics include chapter-ending conclusions and mathematical exercises. This revision places the book at the forefront of current practice by adding a significant amount of new material, updating all existing content, and removing four chapters of supporting material and integrating it into the main chapters. New to This Edition

- Updated environmental regulations and international rules
- Covers new aircraft technology and traffic control
- Discusses new advances in the design, planning, and management of airports
- Contains new chapter: Aircraft Impact on Airports
- Features two new contributing authors from MIT
- In-depth presentation of the latest concepts and effective practices, provided by leading experts internationally known and sought after for their understanding and knowledge

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Airport Operations, 3/e

Norman Ashford, Pierre Coutu, and
John Beasley

Published 10/15/2012

ISBN: 978-0-07-177584-7 / 560 pp.

A completely up-to-date sourcebook for techniques and practices used in the management and operation of medium- and large-sized airport.

Airport Operations, Third Edition provides you with everything you need to know to make an airport function smoothly. The book offers full coverage of the latest developments in this fast-changing industry. Since the second edition was published in 1996, the airport industry has undergone major changes. To address them, the book has been thoroughly updated throughout, covering the very latest in the management and operation of airports—from security to passenger and freight facilities.

- Up-to-date coverage of airport security
- International focus on new airports facilities and privatization
- Reviews online ticketing, check-in, and booking arrangements
- Emphasizes safety management based on international standards organizations such as ICAO (International Civil Aviation Organization) and IATA (International Air Transport Association)
- Discusses, for the first time, the operation of multiple facility airport systems as opposed to single airports
- Contains updated environmental impact control information

Additional Resources

Project Management in Construction, 6/e

Sidney Levy

Published 08/09/2011

ISBN: 978-0-07-175310-4 / 496 pp.

Fully revised to cover the most current contract information and green building guidelines, *Project Management in Construction, Sixth Edition* provides project managers and general contractors with the skills necessary to run every phase of a construction job. This practical guide discusses estimating, purchasing, contract administration, team management, quality control and quality assurance, safety, and other topics essential to completing a project on time and within budget.

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The Analysis of Irregular Shaped Structures Diaphragms and Shear Walls, 1/e

R. Terry Malone and Robert Rice
Published 10/20/2011
ISBN: 978-0-07-176383-7 / 576 pp.

The Analysis of Irregular Shaped Structures: Diaphragms and Shear Walls explains how to calculate the forces to be transferred across multiple discontinuities and reflect the design requirements on construction documents. Step-by-step examples offer progressive coverage, from basic to very advanced illustrations of load paths in complicated structures. The book is based on the 2009 International Building Code, ASCE/SEI 7-05, the 2005 Edition of the National Design Specification for Wood Construction, and the 2008 Edition of the Special Design Provisions for Wind and Seismic (SDPWS-08).

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Structural Design of Low-Rise Building in Cold-Formed Steel, Reinforced Masonry, and Structural Timber, 1/e

J. R. Ubejd Mujagic
Published 03/15/2012
ISBN: 978-0-07-176792-7 / 448 pp.

Structural Design of Low-Rise Building in Cold-Formed Steel Reinforced Masonry, and Structural Timber authoritatively covers the primary aspects of structural design of low-rise buildings in the most common materials—cold-formed steel, reinforced masonry, and structural timber. Cold-formed steel was recently added to the NCEES (National Council of Examiners for Engineering and Surveying) structural exams, and this book also serves as a complete Professional Engineer/Structural Engineer exam study guide.

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The Construction MBA: Practical Approaches to Construction Contracting, 1/e

Matt Stevens
Published 05/28/2012
ISBN: 978-0-07-176325-7 / 464 pp.

The Construction MBA: Practical Approaches to Construction Contracting clearly outlines how to manage the multiple processes that must work simultaneously to make a construction company consistently profitable. It contains proven methods that, if implemented, will make a construction firm virtually resistant to recessions and client and employee problems. Presenting a buttoned-down approach to construction contracting, this practical guide provides real-world solutions that can be applied in any construction business.

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Design of Urban Stormwater Controls, MOP 23, 2/e

Water Environment Federation
Published 05/14/2012
ISBN: 978-0-07-170444-1 / 624 pp.

Design of Urban Stormwater Controls, Second Edition summarizes current practice of stormwater management in urban environments. This Manual of Practice reviews: the effects of uncontrolled runoff on receiving waters; the principles and practices of stormwater management; the institutional framework for stormwater management program implementation; design of runoff controls; cost and maintenance of those controls; methodologies for performance assessment; and analytical tools for design and evaluation.

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Prevention and Control of Sewer System Overflows, 3/e

Water Environment Federation
Published 07/19/2011
ISBN: 978-0-07-173860-6 / 448 pp.

Fully revised throughout, this Water Environment Federation resource provides up-to-date information necessary to help managers and engineers understand and analyze an overflow problem and offers guidance on finding the most efficient, feasible, and cost-effective strategies to reduce or eliminate such overflows. This authoritative volume also serves as a planning guide for developing long-term control plans for combined sewer overflows (CSOs) and sanitary sewer overflows (SSOs).

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Bridge Engineering, 3/e

Jim Zhao and Demetrios Tonias
Published 03/12/2012
ISBN: 978-0-07-175249-7 / 544 pp.

Bridge Engineering, Third Edition discusses recent highway bridge design code changes in the United States. Continuing the style and essential content of the previous editions, this revision replaces dated material with new codes and focuses on Load Resistant Factor Design (LRFD). Rehabilitation, inspection, and design remain key requirements to keep bridge systems safe and functional—these are fully covered in this book. This updated volume addresses the state of art of bridge engineering, highlights major concerns, and offers explanations and solved examples for day-to-day design issues. The book is ideal as both a textbook and a reference for the needs of the bridge and highway engineering community.



Civil Engineering

Available for Spring
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General Aviation Law, 3/e

Jerry Eichenberger

Published 11/28/2011

ISBN: 978-0-07-177181-8 / 288 pp.

Fully revised throughout, *General Aviation Law*, Third Edition, is an essential legal guide for those who work in aviation, including mechanics, pilots, aircraft owners, and aviation business owners. This practical reference answers all questions regarding aviation law in understandable layperson's terms. The information in the book helps you to avoid legal troubles and describes what to expect if you are taken to court. Real-world case studies illustrate the topics addressed. All pertinent laws are clearly explained and clarified, providing you with the knowledge you need to understand your legal rights and protect yourself from costly litigation.

Digital Offerings for Civil Engineering



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Environmental engineering is a professional engineering discipline that takes from broad scientific topics like chemistry, biology, ecology, geology, hydraulics, hydrology, microbiology, and mathematics to create solutions that will protect and also improves the health of living organisms and improve the quality of the environment. Environmental engineering is a sub-discipline of civil engineering and chemical engineering. Environmental engineers integrate environmental science and engineering principles in order to improve and manage the natural environment. As our world population grows, environmental engineers strive to ensure that we all have a good quality of live while also accessing healthy water, air, and land for humans and other organisms. The American Academy of Environmental Engineers and Scientists (AAEES) administers board certification for environmental engineers and accredits academic environmental engineering and environmental science programs. It also provides training through online courses and webinars, and publishes a quarterly magazine and other reference materials for members.