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KEY=WATER - GRIFFIN MARKS

Water Resources Engineering

John Wiley & Sons *Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.*

Water-resources Engineering

Prentice Hall *Water-Resources Engineering provides comprehensive coverage of hydraulics, hydrology, and water-resources planning and management. Presented from first principles, the material is rigorous, relevant to the practice of water resources engineering, and reinforced by detailed presentations of design applications. Prior knowledge of fluid mechanics and calculus (up to differential equations) is assumed.*

Hydrosystems Engineering and Management

Water Resources Publication *This book is intended to be a textbook for students of water resources engineering and management. It is an introduction to methods used in hydrosystems for upper level undergraduate and graduate students. The material can be presented to students with no background in operations research and with only an undergraduate background in hydrology and hydraulics. A major focus is to bring together the use of economics, operations research, probability and statistics with the use of hydrology, hydraulics, and water resources for the analysis, design, operation, and management of various types of water projects. This book is an excellent reference for engineers, water resource planners, water resource systems analysts, and water managers. This book is concerned with the mathematical modeling of problems in water project design, analysis, operation, and management. The quantitative methods include: (a) the simulation of various hydrologic and hydraulic processes; (b) the use of operations research, probability and statistics, and economics. Rarely have these methods been integrated in a systematic framework in a single book like Hydrosystems Engineering and Management. An extensive number of example problems are presented for ease in understanding the material. In addition, a large number of end-of-chapter problems are provided for use in homework assignments.*

WATER RESOURCES ENGINEERING, 2ND EDITION

Market_Desc: Environmental Engineers, Students and Instructors of Environmental Engineering Special Features: · Provides the most up-to-date information along with a remarkable range and depth of coverage· Presents a new chapter on water resources sustainability· Includes a new chapter on water resources management for sustainability· Integrates new and updated graphics throughout the chapters to reinforce important concepts· Adds additional end-of-chapter questions to build understanding About The Book: Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to

reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.

Water Resources Engineering

Pearson College Division *Designed to provide an up-to-date broad coverage of pertinent topics concerning water resource engineering. This book focuses on modern computer-based modeling and analysis methods, illustrating recent advances in computer technology and computational methods that have greatly increased capabilities for solving water resources engineering problems. Focuses on fundamental topics of hydraulics, hydrology, and water management. Water resources engineering concepts and methods are addressed from the perspective of practical applications in water management and associated environmental and infrastructure management. The focus is on mathematical modeling and analysis using state-of-the-art computational techniques and computer software. Appropriate as a reference in water resources engineering for practicing engineers.*

Water Resource Systems Planning and Management

An Introduction to Methods, Models, and Applications

Springer *This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft Hydraulics at the time), this new edition, written again with contributions from Jery R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design, siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.*

Occupational Outlook Handbook

Water Resources and Hydraulics

Cambridge University Press *This exciting new textbook introduces the concepts and tools essential for upper-level undergraduate study in water resources and hydraulics. Tailored specifically to fit the length of a typical one-semester course, it will prove a valuable resource to students in civil engineering, water resources engineering, and environmental engineering. It will also serve as a reference textbook for researchers, practicing water engineers, consultants, and managers. The book facilitates students' understanding of both hydrologic analysis and hydraulic design. Example problems are carefully selected and solved clearly in a step-by-step manner, allowing students to follow along and gain mastery of relevant principles and concepts. These examples are comparable in terms of difficulty level and content with the end-of-chapter student exercises, so students will become well equipped to handle relevant problems on their own. Physical phenomena are visualized in engaging photos, annotated equations, graphical illustrations, flowcharts, videos, and tables.*

Irrigation and Water Resources Engineering

New Age International *The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc.The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal*

Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17.The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

Environmental Engineering

Fundamentals, Sustainability, Design

John Wiley & Sons *Environmental Engineering: Fundamentals, Sustainability, Design presents civil engineers with an introduction to chemistry and biology, through a mass and energy balance approach. ABET required topics of emerging importance, such as sustainable and global engineering are also covered. Problems, similar to those on the FE and PE exams, are integrated at the end of each chapter. Aligned with the National Academy of Engineering's focus on managing carbon and nitrogen, the 2nd edition now includes a section on advanced technologies to more effectively reclaim nitrogen and phosphorous. Additionally, readers have immediate access to web modules, which address a specific topic, such as water and wastewater treatment. These modules include media rich content such as animations, audio, video and interactive problem solving, as well as links to explorations. Civil engineers will gain a global perspective, developing into innovative leaders in sustainable development.*

Hydrology and Hydraulic Systems

Fourth Edition

Waveland Press *For more than 25 years, the multiple editions of Hydrology & Hydraulic Systems have set the standard for a comprehensive, authoritative treatment of the quantitative elements of water resources development. The latest edition extends this tradition of excellence in a thoroughly revised volume that reflects the current state of practice in the field of hydrology. Widely praised for its direct and concise presentation, practical orientation, and wealth of example problems, Hydrology & Hydraulic Systems presents fundamental theories and concepts balanced with excellent coverage of engineering applications and design. The Fourth Edition features a major revision of the chapter on distribution systems, as well as a new chapter on the application of remote sensing and computer modeling to hydrology. Outstanding features of the Fourth Edition include . . . • More than 350 illustrations and 200 tables • More than 225 fully solved examples, both in FPS and SI units • Fully worked-out examples of design projects with realistic data • More than 500 end-of-chapter problems for assignment • Discussion of statistical procedures for groundwater monitoring in accordance with the EPA's Unified Guidance • Detailed treatment of hydrologic field investigations and analytical procedures for data assessment, including the USGS acoustic Doppler current profiler (ADCP) approach • Thorough coverage of theory and design of loose-boundary channels, including the latest concept of combining the regime theory and the power function laws*

Water Resource Economics, second edition

The Analysis of Scarcity, Policies, and Projects

MIT Press *Updated edition of a comprehensive introduction to the economics of water management, with self-contained treatment of all necessary economic concepts. Economics brings powerful insights to water management, but most water professionals receive limited training in it. The second edition of this text offers a comprehensive development of water resource economics that is accessible to engineers and natural scientists as well as to economists. The goal is to build a practical platform for understanding and performing economic analysis using both theoretical and empirical tools. Familiarity with microeconomics or natural resource economics is helpful, but all the economics needed is presented and developed progressively in the text. The book focuses on the scarcity of water quantity (rather than on water quality). The author presents the economic theory of resource allocation, recognizing the peculiarities imposed by water, and then goes on to treat a range of subjects including conservation, groundwater depletion, water law, policy analysis, cost–benefit analysis, water marketing, privatization, and demand and supply estimation. Added features of this updated edition include a*

new chapter on water scarcity risk (with climate change and necessary risk tools introduced progressively) and new risk-attentive material elsewhere in the text; sharper treatment of block rates and pricing doctrine; expanded attention to contemporary literature and issues; and new appendixes on input–output analysis, water footprinting and virtual water, and cost allocation. Each chapter ends with a summary and exercises.

Climate Risk Informed Decision Analysis (CRIDA)

collaborative water resources planning for an uncertain future

UNESCO Publishing

Water Resource Systems Management Tools

McGraw-Hill Professional Engin *Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. This is a unique, integrated approach to water resource systems management and planning. The book provides methods for analyzing water resource needs, modeling, supply reliability, irrigation optimization, and much more. With more and more attention being given to the worldwide interest in sustainability, to the effects of global climate change on future water resources operation and management, as well as public health issues, Dr. Mays has gathered together leading experts in their respective fields offering the latest information on the subject. A fresh approach offering insight for the present generation within the water resources community.*

Assessment of engineering solutions for solid waste removal from irrigation canals in North Lebanon

Food & Agriculture Org. *Waste management in Lebanon is a significant issue anticipating cascading and spill-over effect on livelihood, environment and agriculture. North Lebanon has been experiencing population growth spurts due to humanitarian crises in neighbouring countries that contributes to the urgency of finding sustainable solutions. Adequate delivery of response measures is beyond the capacities of local authorities. Consequently, waste crisis has reached its historical peaks. It is unlikely that upcoming years can bring radical shifts related to the trends in rapidly increasing waste generation. However, the seemingly uncontrollable mechanisms should not lead to inaction, but concentrated efforts should be stepped up to eliminate harmful consequences. The project "Rehabilitation and waste management of El-Bared Canal Irrigation System to reduce source-to-sea pollution and improve livelihoods in the Akkar Region of Lebanon", financed by the Government of Norway, has been formulated to ensure minimal discharges of waste from El-Bared System to the Mediterranean Sea, thus improving the livelihoods of the people depending on the system through irrigation canal system rehabilitation, solid waste disposal, and improved agricultural output and job creation. Applying a pilot approach, the project mainly focuses on Akkar irrigation scheme to introduce both hard investment and soft measures in response to the waste crisis. Following a multi-criteria assessment approach, the current report maps waste removal technologies and provides recommendations on their functions and suitability in the context of the target area. Based on broader understanding of the feasibility, it helps come to a decision on technology selection.*

Water Resources Systems Analysis

CRC Press *Focusing on conflict resolution, Water Resources Systems Analysis discusses systematic approaches to the mathematical modeling of various water resources issues, which helps decision-makers allocate water effectively and efficiently. Readers will gain an understanding of simulation, optimization, multi-criterion-decision-making, as well as engineer*

Water-resources Engineering

Modern Water Resources Engineering

Springer Science & Business Media *The Handbook of Environmental Engineering series is an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms: gas, solid, and liquid. This exciting new addition to the series, Volume 15: Modern Water Resources Engineering , has been designed to serve as a water resources engineering reference book as well as a supplemental textbook. We hope and expect it will prove of equal high value to advanced undergraduate and graduate students, to designers of water resources systems, and to scientists and researchers. A critical volume in the Handbook of Environmental Engineering series, chapters employ methods of practical design and calculation illustrated by numerical examples, include pertinent cost data whenever possible, and explore in great detail the fundamental principles of the field. Volume 15: Modern Water Resources Engineering, provides information on some of the most innovative and ground-breaking advances in the field today from a panel of esteemed experts.*

Nature-Based Solutions and Water Security

An Action Agenda for the 21st Century

Elsevier *Nature-Based Solutions and Water Security: An Action Agenda for the 21st Century presents an action agenda for natural infrastructure on topics of standards and principles, technical evaluation and design tools, capacity building and innovative finance. Chapters introduce the topic and concepts of natural infrastructure, or nature-based solutions (NBS) and water security, with important background on the urgency of the global water crisis and the role that NBS can, and should play, in addressing this crisis. Sections also present the community of practice's collective thinking on a prioritized action agenda to guide more rapid progress in mainstreaming NBS. With contributions from global authors, including key individuals and organizations active in developing NBS solutions, users will also find important conclusions and recommendations, thus presenting a collaboratively developed, consensus roadmap to scaling NBS. Covers all issues of water security and natural infrastructures Presents a comprehensive state of synthesis, providing readers with a solid grounding in the field of natural infrastructures and water security Includes a fully workable and intuitive roadmap for action that is presented as a guide to the most important actions for practitioners, research questions for academics, and information on promising careers for students entering the field*

Water Resources and Hydraulics

Cambridge University Press *This exciting new textbook introduces the concepts and tools essential for upper-level undergraduate study in water resources and hydraulics. Tailored specifically to fit the length of a typical one-semester course, it will prove a valuable resource to students in civil engineering, water resources engineering, and environmental engineering. It will also serve as a reference textbook for researchers, practicing water engineers, consultants, and managers. The book facilitates students' understanding of both hydrologic analysis and hydraulic design. Example problems are carefully selected and solved clearly in a step-by-step manner, allowing students to follow along and gain mastery of relevant principles and concepts. These examples are comparable in terms of difficulty level and content with the end-of-chapter student exercises, so students will become well equipped to handle relevant problems on their own. Physical phenomena are visualized in engaging photos, annotated equations, graphical illustrations, flowcharts, videos, and tables.*

Six-minute Solutions for Civil PE Exam

Water Resources and Environmental Problems

Professional Publications Incorporated *Beat the Clock on the Civil PE Exam With an average of only six minutes to solve each problem on the civil PE exam, speed and accuracy are vital to your success—and nothing gets you up to speed like solving problems. Six-Minute Solutions prepares you to answer even the most difficult morning and afternoon water resources and environmental problems*

in just minutes. Learning important strategies to solve these problems quickly and efficiently is the key to passing the civil PE exam. Six-Minute Solutions will help you pass with: 100 challenging multiple-choice problems, similar in format and difficulty to the actual exam Two levels of difficulty: 31 morning problems and 69 afternoon problems A hint for each problem, to help you get started on the right path Step-by-step solutions outlining how to answer problems quickly and correctly Explanations of how to avoid common errors Water Resources and Environmental Exam Topics Covered Aquatic biology and Microbiology Groundwater and Well Fields Hydraulics Hydrology Solid and Hazardous Waste Wastewater Treatment Water Treatment Water Quality

Engineering Manual for Military Construction

Part 8: Sewage and Waste Disposal, Chapter 6: Industrial Wastes

Engineering Manual for War Department Construction ...

A Dictionary of Civil, Water Resources & Environmental Engineering

Golden Ratio Publishing *A dictionary written for the Civil Professional Engineering (PE) exam.*

The State of the World's Land and Water Resources for Food and Agriculture

Managing Systems at Risk

Routledge *The State of the World's Land and Water Resources for Food and Agriculture is FAO's first flagship publication on the global status of land and water resources. It is an 'advocacy' report, to be published every three to five years, and targeted at senior level decision makers in agriculture as well as in other sectors. SOLAW is aimed at sensitizing its target audience on the status of land resources at global and regional levels and FAO's viewpoint on appropriate recommendations for policy formulation. SOLAW focuses on these key dimensions of analysis: (i) quantity, quality of land and water resources, (ii) the rate of use and sustainable management of these resources in the context of relevant socio-economic driving factors and concerns, including food security and poverty, and climate change. This is the first time that a global, baseline status report on land and water resources has been made. It is based on several global spatial databases (e.g. land suitability for agriculture, land use and management, land and water degradation and depletion) for which FAO is the world-recognized data source. Topical and emerging issues on land and water are dealt with in an integrated rather than sectoral manner. The implications of the status and trends are used to advocate remedial interventions which are tailored to major farming systems within different geographic regions.*

Thriving on Our Changing Planet

A Decadal Strategy for Earth Observation from Space

National Academies Press *We live on a dynamic Earth shaped by both natural processes and the impacts of humans on their environment. It is in our collective interest to observe and understand our planet, and to predict future behavior to the extent possible, in order to effectively manage resources, successfully respond to threats from natural and human-induced environmental change, and capitalize on the opportunities â€" social, economic, security, and more â€" that such knowledge can bring. By continuously monitoring and exploring Earth, developing a deep understanding of its evolving behavior, and characterizing the processes that shape and reshape the environment in which we live, we not only advance knowledge and basic discovery about our planet, but we further develop the foundation upon which benefits to society are built. Thriving on Our Changing Planet presents prioritized science, applications, and observations, along with related strategic and programmatic guidance, to support the U.S. civil space Earth observation program over the coming decade.*

Elements of Chemical Reaction Engineering

Pearson Educación "*The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the book. It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem solving, employing open-ended questions and stressing the Socratic method. Clear and organized, it integrates text, visuals, and computer simulations to help readers solve even the most challenging problems through reasoning, rather than by memorizing equations.*"--*BOOK JACKET.*

Engineering Thermodynamics

Bookboon

Water-resources Engineering

"*Water resources engineers design systems to control the quantity, quality, timing, and distribution of water to support human habitation and the needs of the environment. Water supply and flood control systems are commonly regarded as essential infrastructure for developed areas, and as such water resources engineering is a core specialty area in civil engineering. Water resources engineering is also a specialty area in environmental engineering, particularly with regard to the design of water-supply systems, wastewater-collection systems, and water quality control in natural systems. Overview of book contents. The technical and scientific bases for most water resources applications are in the areas of hydraulics and hydrology, and this text covers these areas with depth and rigor. The fundamentals of closed-conduit open channel surface water hydrology, groundwater hydrology, and water resources planning and management are all covered in detail. Applications of these fundamentals include the design of water distribution systems, hydraulic structures, sanitary sewer systems, stormwater management systems, and water supply well fields. The design protocols for these systems are guided by the relevant ASCE, WEF, and AWWA manuals of practice, as well as USFHWA design guidelines for urban and transportation related drainage structures, and USACE design guidelines for hydraulic structures. The topics covered in this book constitute the technical background expected of water-resources engineers. This text is appropriate for undergraduate and first year graduate courses in hydraulics, hydrology, and water resources engineering. Practitioners will also find the material in this book to be a useful reference on appropriate design protocols*"--

Aquarian

MM Books *Killian knows all about vampires and aliens. They're not real. But when a handsome swimmer climbs into her storm-tossed boat an hour from her summer destination, the worlds of fantasy and reality suddenly collide... Cuttylea Island has no mall, no social scene, and no action. But it does have a mysterious stone tower, ageless islanders, and a secret as astonishing as a mermaid's tale... Before the summer is through, Killian will find the truth of her family's past...and the role she is destined to play in a centuries-old curse.*

Practical Hydraulics and Water Resources Engineering

CRC Press *Water is now at the centre of world attention as never before and more professionals from all walks of life are engaging in careers linked to water – in public water supply and waste treatment, agriculture, irrigation, energy, environment, amenity management, and sustainable development. This book offers an appropriate depth of understanding of basic hydraulics and water resources engineering for those who work with civil engineers and others in the complex world of water resources development, management, and water security. It is simple, practical, and avoids (most of) the maths in traditional textbooks. Lots of excellent 'stories' help readers to quickly grasp important water principles and practices. This third edition is broader in scope and includes new chapters on water resources engineering and water security. Civil engineers may also find it a useful introduction to complement the more rigorous hydraulics textbooks.*

Design of Water Resource Recovery Facilities, Manual of Practice No.8, Sixth Edition

McGraw Hill Professional *Complete Coverage of the State-of-the-Art in Water Resource Recovery Facility Design Featuring contributions from hundreds of wastewater engineering experts, this fully updated guide presents the latest in facility planning, configuration, and design. Design of Water Resource Recovery Facilities: WEF Manual of Practice No. 8 and ASCE Manuals and Reports on Engineering Practice No. 76, Sixth Edition, covers key technical advances in wastewater treatment, including •Advances with membrane bioreactors applications •Advancements within integrated fixed-film/activated*

sludge (IFAS) systems and moving-bed biological-reactors systems •Biotrickling filtration for odor control •Increased use of ballasted flocculation •Enhanced nutrient-control systems •Sidestream nutrient removal to reduce the loading on the main nutrient-removal process •Use and application of wireless instrumentation •Use and application of modeling wastewater treatment processes for the basis of design and evaluations of alternatives •Process design and disinfection practices to minimize generation of TTHMs and other organics monitored for potable water quality •Approaches to minimizing biosolids production and advances in biosolids handling, including effective thermal hydrolysis, and improvements in sludge thickening and dewatering technologies •Increasing goals toward energy neutrality and driving net zero •Trend toward resource recovery

Fluid Mechanics

Elsevier *This is the most comprehensive introductory graduate or advanced undergraduate text in fluid mechanics available. It builds from the fundamentals, often in a very general way, to widespread applications to technology and geophysics. In most areas, an understanding of this book can be followed up by specialized monographs and the research literature. The material added to this new edition will provide insights gathered over 45 years of studying fluid mechanics. Many of these insights, such as universal dimensionless similarity scaling for the laminar boundary layer equations, are available nowhere else. Likewise for the generalized vector field derivatives. Other material, such as the generalized stream function treatment, shows how stream functions may be used in three-dimensional flows. The CFD chapter enables computations of some simple flows and provides entrée to more advanced literature. *New and generalized treatment of similar laminar boundary layers. *Generalized treatment of streamfunctions for three-dimensional flow . *Generalized treatment of vector field derivatives. *Expanded coverage of gas dynamics. *New introduction to computational fluid dynamics. *New generalized treatment of boundary conditions in fluid mechanics. *Expanded treatment of viscous flow with more examples.*

Selected Water Resources Abstracts

Urban Storm Water Management

CRC Press *Design Drainage and Storm Water Management Systems Efficiently Urban Storm Water Management, Second Edition covers the design, installation, and maintenance of storm water management systems, addresses the impact of urban development on runoff and infiltration, and focuses on storm water management relative to flooding and water pollution. Recognizing that urbanization increases and accelerates runoff, reduces infiltration, and deteriorates water quality, the author proposes storm water runoff as a resource that can be conserved for reuse. He suggests the reuse of storm water runoff in general, and rainwater from roofs in particular, as a cost-effective means to achieve long-term sustainability. In addition, the book explores green infrastructure as the future of storm water management, and introduces techniques that can help reduce the thermal impacts of storm water management practices. Based on the author's more than thirty years of experience, this book includes numerous examples and case studies illustrating the methods and procedures needed to design, maintain, and understand structural and nonstructural storm water management systems. It covers every component of the storm water runoff process, discusses commonly employed runoff models in the United States, and introduces a physically based model developed by the author. New in This Edition: Provides an updated presentation of urbanization's impact on storm water Presents further analysis of the universal runoff model and the application of this model to non-uniform rainfalls Offers a more detailed presentation of storm water management systems, especially bio-filtration basins Includes a comparative analysis of the effectiveness and costs of best management practices (BMPs) Adds more than twice as many problems as before Contains an in-depth discussion of the means of collecting storm water, such as roof rain for outdoor and certain indoor uses Urban Storm Water Management covers the design of various types of structural storm water management systems, provides new information on storm water management, suggests alternative solutions to storm water runoff problems, and serves as an overall resource for practicing engineers and municipal planners in the design of storm water management elements.*

Water Engineering

Hydraulics, Distribution and Treatment

John Wiley & Sons *Details the design and process of water supply systems, tracingthe progression from source to sink Organized and logical flow, tracing the connections in thewater-supply system from the water's source to its eventualuse Emphasized coverage of water supply infrastructure and thedesign of water treatment processes Inclusion of fundamentals and practical examples so as toconnect theory with the realities of design Provision of useful reference for practicing engineers whorequire a more in-depth coverage, higher level students studyingdrinking water systems as well as students in*

preparation for theFE/PE examinations Inclusion of examples and homework questions in both SI and USunits

The Economics of Marine Resources and Conservation Policy

The Pacific Halibut Case Study with Commentary

University of Chicago Press *How can we manage a so-called "renewable" natural resource such as a fishery when we don't know how renewable it really is? James A. Crutchfield and Arnold Zellner developed a dynamic and highly successful economic approach to this problem, drawing on extensive data from the Pacific halibut industry. Although the U.S. Department of the Interior published a report about their findings in 1962, it had very limited distribution and is now long out of print. This book presents a complete reprint of Crutchfield and Zellner's pioneering study, together with a new introduction by the authors and four new papers by other scholars. These new studies cover the history of the Pacific halibut industry as well as the general and specific contributions of the original work—such as price-oriented conservation policy—to the fields of resource economics and management. The resulting volume integrates theory and practice in a clear, well-contextualized case study that will be important not just for environmental and resource economists, but also for leaders of industries dependent on any natural resource.*

The Application of Hydraulic and Sediment Transport Models in Fluvial Geomorphology

MDPI *After publishing the famous “Fluvial Processes in Geomorphology” in the early 1960s, the work of Luna Leopold, Gordon Wolman, and John Miller became a key for opening the door to understanding rivers and streams. They first illustrated the problem to geomorphologists and geographers. Later, Chang, in his “Fluvial Processes in River Engineering”, provided a basis for engineers, showing this group of professionals how to deal with rivers and how to understand them. Since then, more informative studies have been published. Many of the authors started to combine fluvial geomorphology knowledge and river engineering needs, such as “Tools in Fluvial Geomorphology” by G. Mathias Kondolf and Hervé Piégay, or focused more on river engineering tasks, such as “Stream Restoration in Dynamic Fluvial Systems: Scientific Approaches” by Andrew Simon, Sean Bennett, and Janine Castro. Finally, Luna Leopold summarized river and stream morphologies in the beautiful “A view of the river”. It appears that we continue to explore this subject in the right direction. We better understand rivers and streams, and as engineers and fluvial geomorphologists, we can establish tools to help bring rivers alive. However, there is still a hunger for more scientific tools that we could use to further understand rivers and to support the development of healthy streams and rivers with high biodiversity in the present world, which has started to face water scarcity.*

Structural Geology

Cambridge University Press *This market-leading textbook has been fully updated in response to extensive user feedback. It includes a new chapter on joints and veins, additional examples from around the world, stunning new field photos, and extended online resources with new animations and exercises. The book's practical emphasis, hugely popular in the first edition, features applications in the upper crust, including petroleum and groundwater geology, highlighting the importance of structural geology in exploration and exploitation of petroleum and water resources. Carefully designed full-colour illustrations work closely with the text to support student learning, and are supplemented with high-quality photos from around the world. Examples and parallels drawn from practical everyday situations engage students, and end-of chapter review questions help them to check their understanding. Updated e-learning modules are available online (www.cambridge.org/fossen2e) and further reinforce key topics using summaries, innovative animations to bring concepts to life, and additional examples and figures.*

The Second Media Age

John Wiley & Sons *This book examines the implications of new communication technologies in the light of the most recent work in social and cultural theory and argues that new developments in electronic media, such as the Internet and Virtual Reality, justify the designation of a "second media age".*