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Wesley P. James has over 40 years of experience in hydraulics, hydrology, and water resources engineering, working in federal agencies, private consulting, and universities. He has continued his ...

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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-Resources Engineering provides comprehensive coverage of hydraulics, hydrology, and water-resources planning and management. Presented from first principles, the material is

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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.

This book, *Advances in Water Resources Engineering, Volume 14*, covers the topics on watershed sediment dynamics and modeling, integrated simulation of interactive surface water and groundwater systems, river channel stabilization with submerged vanes, non-equilibrium sediment transport, reservoir sedimentation, and fluvial processes, minimum energy dissipation rate theory and applications,



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hydraulic modeling development and application, geophysical methods for assessment of earthen dams, soil erosion on upland areas by rainfall and overland flow, geofluvial modeling methodologies and applications, and environmental water engineering glossary.

Water Management Models: A Guide to Software is designed to make the inventory of modeling tools more accessible to water management professionals. The purpose of the book is to assist water managers, planners, engineers, and scientists in sorting through

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the maze of models to understand which ones might be most useful for their particular modeling needs. Information is provided to facilitate identification, selection, and acquisition of software packages for a broad spectrum of water resources planning and management applications.

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

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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.

This book is a collection of innovative up-to-date perspectives on key aspects of water resources planning, development, and management of importance to both professional practitioners and researchers. Authors with outstanding expertise address a broad range of topics that include planning

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strategies, water quality modeling and monitoring, erosion prediction, freshwater inflows to estuaries, coastal reservoirs, irrigation management, aquifer recharge, and water allocation.

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.

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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

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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.

While the world's population continues to grow, the availability of water remains constant. Facing the looming water crisis, society needs to tackle strategic management issues as an integrated part of the solution toward water sustainability. The first volume in the two-volume set Sustainable Water Management and Technologies offers readers a practical and comprehensive look at such key water management topics as water resource planning and governance,

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water infrastructure planning and adaption, proper regulations, and water scarcity and inequality. It discusses best management practices for water resource allocation, ground water protection, and water quality assurance, especially for rural, arid, and underdeveloped regions of the world. Timely topics such as drought, ecosystem sustainability, climate change, and water management for shale oil and gas development are presented. Discusses best practices for water resource allocation, ground water protection, and water quality assurance. Offers chapters on urban, rural, arid, and underdeveloped regions of the world. Describes timely topics such as drought, ecosystem sustainability, climate change,

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and water management for shale oil and gas development. Covers water resource planning and governance, water infrastructure planning and adaptation, proper regulations, and water scarcity and inequality Discusses water resource monitoring, efficiency, and quality management.

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