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The Book Conforms To The Modern Concept Of Treating The Diversified Problems Of Water Resources Engineering Through A Multi-Disciplinary And Integrated Approach And Incorporating It In The Educational Curriculum For Effective And Comprehensive Teaching. It Specifically Deals With The Principal Segments Of Water Resources Engineering Which Include Hydrology, Ground Water, Water Management For Irrigation And Power, Flood Control, Engineering Economy In Water Resources Projects For Flood Control, Project Planning In Water Resources, Concrete And Earth Dams. Because Of The Multi-Disciplinary Nature Of Water Resources Engineering Problems, It Is Seldom Possible To Do Full Justice To The Subjects Unless The Teaching Imparts Background Knowledge Of The Allied Disciplines, Viz., Probability And Statistics, Engineering Economics And Systems Engineering. The Book Represents An Attempt To Fulfill This Primal Need. The Book Would Primarily Benefit Students Doing Graduation In Civil Engineering And Those Appearing In Section-B Examination Of The Institution Of Engineers (India). Besides, Some Of The Topics Covered In The Book Would Also Be Of Much Use By Post-Graduate Students In Water Resources Engineering.

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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.

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A definitive guide, this book focuses on the design and construction of water infrastructure projects within karst formations and provides engineering approaches for preventing and mitigating their environmental problems. It features 200 figures, investigative techniques, practical design solutions, case studies with failure analysis, criteria prop

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, 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.

Hydraulics has a reputation for being a complex, even intimidating, discipline. Put simply,

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hydraulics is the study of how water and similar fluids behave and can be harnessed for practical use. It is one of the fundamental scientific and engineering subjects and many professions demand a working knowledge of its basic concepts, yet most hydraulics textbooks are aimed at readers with a strong engineering or mathematical background. Practical Hydraulics approaches the subject from basic principles and demonstrates how these are applied in practice. It is clearly written and includes many illustrations and examples. It will appeal to a wide range of professionals and students needing an introduction to the subject, from farmers irrigating crops to fire crews putting out fires with high-pressure water hoses. However hydraulics is not just about water. Many other fluids behave in the same way and so affect a wide range of people from doctors, needing to know how blood flows in veins, to car designers, wanting to save fuel by reducing drag.

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.

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