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Modern water conveyance and storage techniques are the product of thousands of years of human innovation; today we rely on that same innovation to devise solutions to problems surrounding the rational use and conservation of water

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resources, with the same overarching goal: to supply humankind with adequate, clean, freshwater. *Water Resources Engineering* presents an in-depth introduction to hydrological and hydraulic processes, with rigorous coverage of both core principles and practical applications. The discussion focuses on the engineering aspects of water supply and water excess management, relating water use and the hydrological cycle to fundamental concepts of fluid mechanics, energy, and other physical concepts, while emphasizing the use of up-to-date analytical tools and methods. Now in its Third Edition, this straightforward text includes new links to additional resources that help students develop a deeper, more intuitive grasp of the material, while the depth and breadth of coverage retains a level of rigor

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suitable for use as a reference among practicing engineers.

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



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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.

The world faces huge challenges for water as population continues to grow, as emerging economies develop and as climate change alters the global and local water cycle. There are major questions to be answered about how we supply

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water in a sustainable and safe manner to fulfil our needs, while at the same time protecting vulnerable ecosystems from disaster. Water Resources: An Integrated Approach provides students with a comprehensive overview of both natural and socio-economic processes associated with water. The book contains chapters written by 20 specialist contributors, providing expert depth of coverage to topics. The text guides the reader through the topic of water starting with its unique properties and moving through environmental processes and human impacts upon them including the changing water cycle, water movement in river basins, water quality, groundwater and aquatic ecosystems. The book then covers management strategies for water resources, water treatment and re-use, and the role of water in human health before

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covering water economics and water conflict. The text concludes with a chapter that examines new concepts such as virtual water that help us understand current and future water resource use and availability across interconnected local and global scales. This book provides a novel interdisciplinary approach to water in a changing world, from an environmental change perspective and inter-related social, political and economic dimensions. It includes global examples from both the developing and developed world. Each chapter is supplemented with boxed case studies, end of chapter questions, and further reading, as well as a glossary of terms. The text is richly illustrated throughout with over 150 full colour diagrams and photos.

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This in-depth review of water-resources engineering essentials focuses on both fundamentals and design applications. Emphasis on fundamentals encourages readers' understanding of basic equations in water-resources engineering and the background that is necessary to develop innovative solutions to complex problems. Comprehensive design applications illustrate the practical application of the basic equations of water-resources engineering. Full coverage of hydraulics, hydrology, and water-resources planning and management is provided. Hydraulics is separated into closed-conduit flow and open-channel flow, and hydrology is separated into surface-water hydrology and ground-water hydrology. For professionals looking for a reference book on water-resources engineering.

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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.

Hydrology and water resources analysis can be looked at together, but this is the only book which presents the relevant material and which bridges the gap between scientific processes and applications in one text. New methods and

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programs for solving hydrological problems are outlined in a concise and readily accessible form. Hydrology and Water Resource Systems Analysis includes a number of illustrations and tables, with fully solved example problems integrated within the text. It describes a systematic treatment of various surface water estimation techniques; and provides detailed treatment of theory and applications of groundwater flow for both steady-state and unsteady-state conditions; time series analysis and hydrological simulation; floodplain management; reservoir and stream flow routing; sedimentation and erosion hydraulics; urban hydrology; the hydrological design of basic hydraulic structures; storage spillways and energy dissipation for flood control, optimization techniques for water management projects; and methods for uncertainty analysis.

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It is written for advanced undergraduate and graduate students and for practitioners. Hydrologists and water-related professionals will be helped with an unfamiliar term or a new subject area, or be given a formula, the procedure for solving a problem, or guidance on the computer packages which are available, or shown how to obtain values from a table of data. For them it is a compendium of hydrological practice rather than science, but sufficient scientific background is provided to enable them to understand the hydrological processes in a given problem, and to appreciate the limitations of the methods presented for solving it.

Data on water quality and other environmental issues are being collected at an ever-increasing rate. In the past,

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however, the techniques used by scientists to interpret this data have not progressed as quickly. This is a book of modern statistical methods for analysis of practical problems in water quality and water resources. The last fifteen years have seen major advances in the fields of exploratory data analysis (EDA) and robust statistical methods. The 'real-life' characteristics of environmental data tend to drive analysis towards the use of these methods. These advances are presented in a practical and relevant format. Alternate methods are compared, highlighting the strengths and weaknesses of each as applied to environmental data. Techniques for trend analysis and dealing with water below the detection limit are topics covered, which are of great interest to consultants in water-quality and hydrology,



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scientists in state, provincial and federal water resources, and geological survey agencies. The practising water resources scientist will find the worked examples using actual field data from case studies of environmental problems, of real value. Exercises at the end of each chapter enable the mechanics of the methodological process to be fully understood, with data sets included on diskette for easy use. The result is a book that is both up-to-date and immediately relevant to ongoing work in the environmental and water sciences.

Increasing demand for water, higher standards of living, depletion of resources of acceptable quality, and excessive water pollution due to urban, agricultural, and industrial expansions have caused intense environmental, social,

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economic, and political predicaments. More frequent and severe floods and droughts have changed the resiliency and ability of water infrastructure systems to operate and provide services to the public. These concerns and issues have also changed the way we plan and manage our surface and groundwater resources. Groundwater Hydrology: Engineering, Planning, and Management, Second Edition presents a compilation of the state-of-the-art subjects and techniques in the education and practice of groundwater and describes them in a systematic and integrated fashion useful for undergraduate and graduate students and practitioners. This new edition features updated materials, computer codes, and case studies throughout. Features: Discusses groundwater hydrology, hydraulics, and basic laws of

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groundwater movement Describes environmental water quality issues related to groundwater, aquifer restoration, and remediation techniques, as well as the impacts of climate change \ Examines the details of groundwater modeling and simulation of conceptual models Applies systems analysis techniques in groundwater planning and management Delineates the modeling and downscaling of climate change impacts on groundwater under the latest IPCC climate scenarios Written for students as well as practicing water resource engineers, the book develops a system view of groundwater fundamentals and model-making techniques through the application of science, engineering, planning, and management principles. It discusses the classical issues in groundwater hydrology and hydraulics followed by coverage

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of water quality issues. It also introduces basic tools and decision-making techniques for future groundwater development activities, taking into account regional sustainability issues. The combined coverage of engineering and planning tools and techniques, as well as specific challenges for restoration and remediation of polluted aquifers sets this book apart.

▣ **ABOUT THE BOOK:** The earlier fifth editions of the book have received immensely encouraging response from the students as well as the teachers. This has enabled bringing out of the sixth edition of the book so soon. While the main objectives of the fifth edition are identical with those of the fourth edition, the book has been thoroughly revised and

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several new articles have been added. The subject matter has been presented in a simple language. The basic principles involved in the design of various irrigation works have been thoroughly explained. The book covers the complete syllabus of this subject for the students studying at first degree course of the various Indian universities. Some advanced topics included in the book will be useful for the students studying at the post graduate level. The book will be quite useful for the various competitive examinations such as Engineering services and ICS examinations and it will be equally suitable for the students preparing for AMIE examinations. □RECOMMENDATIONS: [S.I. UNITS] (A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations) □ABOUT THE

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