

Engineering Hydrology Second Edition K Subramanya | ee15a4c5488b53004cef0983d56dafa

Statistical Methods in Water Resources
Flow in Open Channels
Engineering Hydrology
Environmental Hydrology, Second Edition
Hydrology and Water Resource Systems Analysis
Handbook of Engineering Hydrology (Three-Volume Set)
Elements of Physical Hydrology
Engineering Hydrology
Engineering Hydrology for Natural Resources Engineers
Water Resources
Fundamentals of Hydrology
Hydrology and Water Resources
Handbook of Applied Hydrology, Second Edition
Stream Hydrology
Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling
ENGINEERING HYDROLOGY
Chemical and Isotopic Groundwater Hydrology
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Andean Hydrology
Solution Manual to Engineering Hydrology 3rd Edition By K. Subramanya
Hydrology
Engineering Hydrology
Groundwater Hydrology
Engg Hydrology, 3E
Groundwater Hydrology of Springs
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ENGG HYDROLOGY, 3E
Hydrology Handbook
Hydrology in Practice
Hydrology
Engineering Hydrology Techniques in Practice

Statistical Methods in Water Resources

Flow in Open Channels

The book contains a lot of basic knowledge in the field of hydrology and contains valuable research in the area of water resources evaluation, development and management. The book will help students in the streams of meteorology, forestry, environmental engineering, geology and earth sciences and also persons dealing in the areas of agriculture and agricultural & civil engineering. Please note: This volume is Co-published with New

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Engineering Hydrology

Meant for the undergraduate students of Civil Engineering, written in a simple and lucid style, this book focuses on the Indian scenario of water resources with orientation to tropical climates. Comprehensive coverage and clear explanations make the book very student friendly. Features Right depth of theoretical explanations with clear diagrams and numerous examples Emphasis on the current water resources scenario in India. Contains authentic and updated statistical data relating to water resources status. Comprehensive coverage with emphasis on applicability of concepts presented to field situations relevant to Indian conditions The book contains the latest technologies and applications such as GPS, GIS and Remote sensing in various aspects of applied hydrology .

Environmental Hydrology, Second Edition

This book presents the main hydrological methods and techniques used in the design and operation of hydraulic projects and the management of water resources and associated natural risks. It covers the key topics of water resources engineering, from the estimation of runoff volumes and unit hydrographs to the routing of flows along a river and throu

Hydrology and Water Resource Systems Analysis

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 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

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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 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.

Handbook of Engineering Hydrology (Three-Volume Set)

Beginning with the basics of water resources and hydrologic cycle, the book contains detailed discussions on simulation and synthetic methods in hydrology, rainfall-runoff analysis, flood frequency analysis, fundamentals of groundwater flow, and well hydraulics. Special emphasis is laid on groundwater budgeting and numerical methods to deal with situations where analytical solutions are not possible. The book has a balanced coverage of conventional techniques of hydrology along with the latest topics, which makes it equally useful to practising engineers.

Elements of Physical Hydrology

Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India) U.P.S.C. Exam & Practising Engineers.

Engineering Hydrology

An attempt is made to place before students (degree and post-degree) and professionals in the fields of Civil

and Agricultural Engineering, Geology and Earth Sciences, this important branch of Hydrosience, i.e., Hydrology. It deals with all phases of the Hydrologic cycle and related topics in a lucid style and in metric system. There is a departure from empiricism, with emphasis on collection of hydrological data, processing and analysis of data, and hydrological design on sound principles and matured judgement. Large number of hydrological design problems are worked out at the end of each article, to illustrate the principles involved and the design procedure. Problems for assignment are given at the end of each chapter, along with objective type and intelligence questions.

Engineering Hydrology for Natural Resources Engineers

MOP 28 serves as a basic reference, providing a thorough, up-to-date guide for hydrologists.

Water Resources

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 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. 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.

Fundamentals of Hydrology

This is the fifth and last volume representing the proceedings of the International Conference on Water Resources Management in Arid Regions held March 23rd-27th 2002 in Kuwait. This book discusses major aspects of hydrology and water resources. It presents papers on important aspects of surface water and groundwater hydrology, including drought tendencies, regional flood frequency analysis, urban storm drainage with curb-opening inlets, isotopic investigations for lakes, hydrologic and sediment transport modeling, groundwater exploration using remote sensing and GIS, origin and recharge rates of alluvial ground waters, stormwater and groundwater management, and considerations for stochastic finite element in geostatistics and modeling. Papers on water quality supplement the discussion.

Hydrology and Water Resources

"Hydrology and Water Resources Engineering illustrates all the terms of the hydrologic cycle and discusses the possible ways of their estimation. Application of the methods to the field problems are discussed extensively. The book focuses primarily on surface water hydrology and all the aspects of hydrologic processes, analysis, and design. All the hydrologic processes and storages such as precipitation, infiltration, evaporation, stream flow-runoff estimation, evapo-transpiration, hydrograph, flood estimation, flood routing, reservoir and sedimentation are covered with a number of alternative approaches to solve the problems, followed by examples, taken from field data to make the readers understand the techniques conceptually."--BOOK JACKET.

Handbook of Applied Hydrology, Second Edition

Thoughtfully illustrated, carefully written, and covering a broad spectrum of topics, this classic text clarifies a subject that is often misunderstood and oversimplified.

Stream Hydrology

Fully Updated Hydrology Principles, Methods, and Applications Thoroughly revised for the first time in 50 years, this industry-standard resource features chapter contributions from a “who’s who” of international hydrology experts. Compiled by a colleague of the late Dr. Chow, **Chow’s Handbook of Applied Hydrology, Second Edition**, covers scientific and engineering fundamentals and presents all-new methods, processes, and technologies. Complete details are provided for the full range of ecosystems and models. Advanced chapters look to the future of hydrology, including climate change impacts, extraterrestrial water, social hydrology, and water security. **Chow’s Handbook of Applied Hydrology, Second Edition**, covers: · The Fundamentals of Hydrology · Data Collection and Processing · Hydrology Methods · Hydrologic Processes and Modeling · Sediment and Pollutant Transport · Hydrometeorologic and Hydrologic Extremes · Systems Hydrology · Hydrology of Large River and Lake Basins · Applications and Design · The Future of Hydrology

Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling

Water in its different forms has always been a source of wonder, curiosity and practical concern for humans everywhere. **Hydrology: An Introduction** presents a coherent introduction to the fundamental principles of hydrology, based on the course that Wilfried Brutsaert has taught at Cornell University for the last thirty years. Hydrologic phenomena are dealt with at spatial and temporal scales at which they occur in nature. The physics and mathematics necessary to describe these phenomena are introduced and developed, and readers will require a working knowledge of calculus and basic fluid mechanics. The book will be invaluable as a textbook for entry-level courses in hydrology directed at advanced seniors and graduate students in physical science and engineering. In addition, the book will be more broadly of interest to professional scientists and engineers in hydrology, environmental science, meteorology, agronomy, geology, climatology, oceanology, glaciology and other earth sciences.

ENGINEERING HYDROLOGY

This book describes the ecosystem of the Andean watersheds, covering the Californian valley, tropical Andes,

and southern Andes. Case studies of the new methods and techniques used for hydrological research in the Andes are provided, and sustainability issues pertaining to Andean water resources are discussed in the context of climate change, social and economic issues, and public policy. Furthermore, the impact of economic development on the Andean ecosystem, specifically the effect on the water cycle and the water-energy-food nexus, are examined.

Chemical and Isotopic Groundwater Hydrology

Engineering Hydrology

Since the publication of the first edition (1994) there have been rapid developments in the application of hydrology, geomorphology and ecology to stream management. In particular, growth has occurred in the areas of stream rehabilitation and the evaluation of environmental flow needs. The concept of stream health has been adopted as a way of assessing stream resources and setting management goals. **Stream Hydrology: An Introduction for Ecologists Second Edition** documents recent research and practice in these areas. Chapters provide information on sampling, field techniques, stream analysis, the hydrodynamics of moving water, channel form, sediment transport and commonly used statistical methods such as flow duration and flood frequency analysis. Methods are presented from engineering hydrology, fluvial geomorphology and hydraulics with examples of their biological implications. This book demonstrates how these fields are linked and utilised in modern, scientific river management. Emphasis on applications, from collecting and analysing field measurements to using data and tools in stream management. Updated to include new sections on environmental flows, rehabilitation, measuring stream health and stream classification. Critical reviews of the successes and failures of implementation. Revised and updated windows-based AQUAPAK software. This book is essential reading for 2nd/3rd year undergraduates and postgraduates of hydrology, stream ecology and fisheries science in Departments of Physical Geography, Biology, Environmental Science, Landscape Ecology, Environmental Engineering and Limnology. It would be valuable reading for professionals working in stream ecology, fisheries science and habitat management, environmental consultants and engineers.

Andean Hydrology

This fully revised edition provides a modern overview of the intersection of hydrology, water quality, and water management at the rural-urban interface. The book explores the ecosystem services available in wetlands, natural channels and ponds/lakes. As in the first edition, Part I examines the hydrologic cycle by providing strategies for quantifying each component: rainfall (with NOAA 14), infiltration, evapotranspiration and runoff. Part II examines field and farm scale water quality with an introduction to erosion prediction and water quality. Part III provides a concise examination of water management on the field and farm scale, emphasizing channel design, field control structures, measurement structures, groundwater processes and irrigation principles. Part IV then concludes the text with a treatment of basin-scale processes. A comprehensive suite of software tools is available for download, consisting of Excel spreadsheets, with some public domain models such as HY-8 culvert design, and software with public domain readers such as Mathematica, Maple and TK solver.

Solution Manual to Engineering Hydrology 3rd Edition By K. Subramanya

This edition has been revised to cater to undergraduate and postgraduate students of Civil Engineering and those studying Open Channel Hydraulics. Besides it will also be useful to aspiring and practicing engineers. The book fulfills the syllabi requirement of majority of Indian universities. Offering learning objective-based enriched content, well-structured layout, and a strong pedagogy, it includes questions from competitive examinations as well.

Hydrology

The technological advances of recent years include the emergence of new remote sensing and geographic information systems that are invaluable for the study of wetlands, agricultural land, and land use change. Students, hydrologists, and environmental engineers are searching for a comprehensive hydrogeologic overview that supplements information on hydrologic processes with data on these new information technology tools. Environmental Hydrology, Second Edition builds upon the foundation of the bestselling first

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edition by providing a qualitative understanding of hydrologic processes while introducing new methods for quantifying hydrologic parameters and processes. Written by authors with extensive multidisciplinary experience, the text first discusses the components of the hydrologic cycle, then follows with chapters on precipitation, stream processes, human impacts, new information system applications, and numerous other methods and strategies. By updating this thorough text with the newest analytical tools and measurement methodologies in the field, the authors provide an ideal reference for students and professionals in environmental science, hydrology, soil science, geology, ecological engineering, and countless other environmental fields.

Engineering Hydrology

Groundwater Hydrology

Engg Hydrology, 3E

An established and popular text written for students of civil engineering and practising engineers. Plenty of practical examples are provided, as well as problems for the reader to attempt.

Groundwater Hydrology of Springs

The book is primarily aimed at the undergraduate students and practising engineers may find it useful to brush-up their concepts and to know about the latest developments in the field of Hydrology. The objective, is to convey the concepts to students in a simple and easily understandable manner and to also have sufficient advanced level material to arouse the curiosity of those who want to look beyond their curriculum. Salient Features: - Last two chapters describe the application of concepts like, precipitation, evapotranspiration, infiltration etc - Discusses SCS method in detail - Coverage on estimation of the direction of ground water

from head measured in different wells

A Text Book of Hydrology

In order to manage the world's increasingly scarce water resources we must have a sound understanding of how water moves around the planet and what influences water quality. Fundamentals of Hydrology provides an engaging and comprehensive introduction to this subject and provides real-life examples of water resource management in a changing world. The second edition of this popular book brings the text up-to-date with additional case studies and diagrams and a greater synthesis of water quality with physical hydrology. The chapters on runoff and evaporation have been updated and the final chapter on hydrology in a changing world has more material on water resource management strategies. Additionally the chapter on streamflow analysis now includes a more in-depth section on modelling runoff. The book begins with a comprehensive coverage of precipitation, evaporation, water stored in the ground and as snow and ice, and runoff. These physical hydrological processes show with respect to the fundamental knowledge about the process, its measurement and estimation and how it ties in with water quality. Following this is a section on analyzing streamflow data, including using computer models and combining hydrology and ecology for in-stream flow assessment. A chapter on water quality shows how to measure and estimate it in a variable environment and finishes with a section on pollution treatment. The final chapter brings the text together to discuss water resource management and real-life issues that are faced by hydrologists in a constantly changing world. Fundamentals of Hydrology is a lively and accessible introduction to the study of hydrology at university level. This new edition continues to provide an understanding of hydrological processes, knowledge of the techniques used to assess water resources and an up-to-date overview of water resource management in a changing world. Throughout the text, wide-ranging examples and case studies are used to clearly explain ideas and methods. Short chapter summaries, essay questions, guides to further reading and a glossary are also included.

Engineering Hydrology

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. Understand the fundamentals,

methods, and processes of modern hydrology This comprehensive engineering textbook offers a thorough overview of all aspects of hydrology and shows how to apply hydrologic principles for effective management of water resources. It presents detailed explanations of scientific principles along with real-world applications and technologies. **Engineering Hydrology: An Introduction to Processes, Analysis, and Modeling** follows a logical progression that builds on foundational concepts with modern hydrologic methods. Every hydrologic process is clearly explained along with current techniques for modeling and analyzing data. You will get practice problems throughout that help reinforce important concepts. Coverage includes: •The hydrologic cycle •Water balance •Components of the hydrologic cycle •Evapotranspiration •Infiltration and soil moisture •Surface water •Groundwater •Water quality •Hydrologic measurements •Streamflow measurement •Remote sensing and geographic information systems •Hydrologic analysis and modeling •Unit hydrograph models •River flow modeling •Design storm and design flood estimation •Environmental flows •Impact of climate change on water management

A Textbook Of Water Power Engineering

Hydrology

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

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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.

Engineering Hydrology

Hydrology in Practice is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies, the Environment Agency, and elsewhere. This fourth edition of Hydrology in Practice, while retaining all that is excellent about its predecessor, by Elizabeth M. Shaw, replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions. Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years. The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day-to-day basis. Topical case studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it. The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes, which also relate to courses in geography and environmental science departments. In this respect the book draws on the expertise of Keith J. Beven and Nick A. Chappell, who have extensive experience of field hydrological studies in a variety of different environments, and have taught undergraduate hydrology courses for many years. Second- and final-year undergraduate (and MSc) students of hydrology in engineering, environmental science, and geography departments across the globe, as well as professionals in environmental protection agencies and consultancies, will find this book invaluable. It is likely to be the course text for every undergraduate/MSc hydrology course in the UK and in many cases overseas too.

Agricultural Salinity Assessment and Management

While most books examine only the classical aspects of hydrology, this three-volume set covers multiple aspects of hydrology, and includes contributions from experts from more than 30 countries. It examines new approaches, addresses growing concerns about hydrological and ecological connectivity, and considers the

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worldwide impact of climate change. It also provides updated material on hydrological science and engineering, discussing recent developments as well as classic approaches. Published in three books, Fundamentals and Applications; Modeling, Climate Change, and Variability; and Environmental Hydrology and Water Management, the entire set consists of 87 chapters, and contains 29 chapters in each book. Students, practitioners, policy makers, consultants and researchers can benefit from the use of this text.

Hydrology for Engineers, SI Metric Edition

Hydrology and Water Resources Engineering

This fully revised edition provides a modern overview of the intersection of hydrology, water quality, and water management at the rural-urban interface. The book explores the ecosystem services available in wetlands, natural channels and ponds/lakes. As in the first edition, Part I examines the hydrologic cycle by providing strategies for quantifying each component: rainfall (with NOAA 14), infiltration, evapotranspiration and runoff. Part II examines field and farm scale water quality with an introduction to erosion prediction and water quality. Part III provides a concise examination of water management on the field and farm scale, emphasizing channel design, field control structures, measurement structures, groundwater processes and irrigation principles. Part IV then concludes the text with a treatment of basin-scale processes. A comprehensive suite of software tools is available for download, consisting of Excel spreadsheets, with some public domain models such as HY-8 culvert design, and software with public domain readers such as Mathematica, Maple and TK solver.

Engineering Hydrology for Natural Resources Engineers

This updated and expanded edition provides a thorough understanding of the measurable properties of groundwater systems and the knowledge to apply hydrochemical, geological, isotopic, and dating approaches to their work. This volume includes question and answer discussions for key concepts presented in the text and the basic hydrological, geological, and physical parameters to be observed and measured. Chemical and

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Isotopic Groundwater Hydrology, Third Edition covers the chemical tools of groundwater hydrology, the isotopic composition of water and groundwater dating by tritium, carbon-14, Cl-36, and He-4, as well as the application of fossil groundwater as a paleoclimatic indicator.

Applied Hydrology

This is the Solution Manual For Engineering Hydrology by K. Subramanya 3rd Edition " ISBN (13): 9780070648555, ISBN (10): 0070648557 "

ENGG HYDORLOGY,3E

Groundwater Hydrology of Water Resource Series - Water is an essential environmental resource and one that needs to be properly managed. As the world places more emphasis on sustainable water supplies, the demand for expertise in hydrology and water resources continues to increase. This series is intended for professional engineers, who seek a firm foundation in hydrology and an ability to apply this knowledge to solve problems in water resource management. Future books in the series are: Groudwater Hydrology of Springs (2009), Groudwater Hydrology of River Basins (2009), Groudwater Hydrology of Aquifers (2010), and Groudwater Hydrology of Wetlands (2010). First utilized as a primary source of drinking water in the ancient world, springs continue to supply many of the world's cities with water. In recent years their long-term sustainability is under pressure due to an increased demand from groundwater users. Edited by two world-renowned hydrologists, Groundwater Hydrology of Springs: Theory, Management, and Sustainability will provide civil and environmental engineers with a comprehensive reference for managing and sustaining the water quality of Springs. With contributions from experts from around the world, this book cover many of the world's largest springs, providing a unique global perspective on how engineers around the world are utilizing engineering principles for coping with problems such as: mismanagement, overexploitation and their impacts both water quantity and quality. The book will be divided into two parts: part one will explain the theory and principles of hydrology as they apply to Springs while part two will provide a rare look into the engineering practices used to manage some of the most important Springs from around the world. Description of the spring and the aquifer feeding it Latest groundwater and contaminant transport models Description of

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sources of aquifer use Understanding of contamination and/or possible contamination A plan for management and sustainability

Hydrology Handbook

Hydrology in Practice

Hydrology

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, 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 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 of water quality issues. It also introduces basic

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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.

Engineering Hydrology Techniques in Practice

This lucidly-written book, with its diagrammatic representation and practical examples, presents a comprehensive treatment of the fundamentals of engineering hydrology in the areas of elements of hydrological cycle, abstraction losses, streamflow measurement, runoff, hydrology statistics, flood frequency analysis and groundwater flow. Throughout the book, the text emphasises problem-solving in which students are encouraged to apply their conceptual understanding in order to solve practical problems. This book is primarily intended for the undergraduate students of civil engineering and agricultural engineering.

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