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website access codes, or print supplements that may come packaged with the bound book. For undergraduate and graduate courses in Hydrology. This text offers a clear and up-to-date presentation of fundamental concepts and design

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methods required to understand hydrology and floodplain analysis. It addresses the computational emphasis of modern hydrology and provides a balanced approach to important applications in watershed analysis, floodplain computation, flood

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*control, urban hydrology, stormwater
design, and computer modeling. This
text is perfect for engineers and
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*For more than 25 years, the multiple
editions of Hydrology & Hydraulic
Systems have set the standard for a*

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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.*

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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

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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

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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 •

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*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*

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*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*

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This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing, CO₂ sequestration, sustainable groundwater management, and more. Providing a complete treatment of the

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theory and practice of groundwater engineering, this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones, covers the protection of

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*groundwater, and the remediation of
contaminated groundwater.*

Field Hydrogeology

Applied Principles of Hydrology

Hydrology and Hydraulic Systems

Fourth Edition

Silicon and Gallium Arsenide

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This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's

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***students in civil
engineering. In order to
keep the treatment
focused, the emphasis is
on roadways (highways)
based transportation
systems, from the***

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***perspective of Indian
conditions.***

***Objectives of the book
are meant to fulfill the
main learning outcomes
for students registered in
named courses, which***

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***covered the following: -
Solving problems in
hydrology and making
decisions about
hydrologic issues that
involve uncertainty in
data, scant/incomplete***

***data, and the variability
of natural materials. -
Designing a field
experiment to address a
hydrologic question. -
Evaluating data collection
practices in terms of***

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ethics. - Interpret basic hydrological processes such as groundwater flow, water quality issues, water balance and budget at a specific site at local and regional

scales based on available geological maps and data sets. - Conceptualizing hydrogeology of a particular area in three dimensions and be able to predict the effects on a

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system when changes are imposed on it. Learning outcomes are expected to include the following: - Overview of essential concepts encountered in hydrological systems. -

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Developing a sound understanding of concepts as well as a strong foundation for their application to real-world, in-the-field problem solving. -

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***Acquisition of knowledge
by learning new
concepts, and properties
and characteristics of
water. - Cognitive skills
through thinking,
problem solving and use***

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***of experimental work and
inferences - Numerical
skills through application
of knowledge in basic
mathematics and supply
issues. - Student
becomes responsible for***

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***their own learning
through solution of
assignments, laboratory
exercises and report
writing. "Problem solving
in engineering hydrology"
is primarily proposed as***

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***an addition and a
supplementary guide to
fundamentals of
engineering hydrology.
Nevertheless, it can be
sourced as a standalone
problem solving text in***

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***engineering hydrology.
The book targets
university students and
candidates taking first
degree courses in any
relevant engineering field
or related area. The***

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***document is valued to
have esteemed benefits
to postgraduate students
and professional
engineers and
hydrologists. Likewise, it
is expected that the book***

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will stimulate problem solving learning and quicken self-teaching. By writing such a script it is hoped that the included worked examples and problems will guarantee

***that the booklet is a
precious asset to student-
centered learning. To
achieve such objectives
immense care was paid to
offer solutions to
selected problems in a***

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***well-defined, clear and
discrete layout exercising
step-by-step procedure
and clarification of the
related solution
employing vital
procedures, methods,***

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***approaches, equations,
data, figures and
calculations. The new
edition of the book
hosted the incorporation
of computer model
programs for the***

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***different hydrological
scenarios and
encountered problems
presented throughout the
book. Developed
programs were coded
with Microsoft Visual***

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Basic.NET 10

***programming language,
using Microsoft Visual
Studio 2010 Professional
Edition. Most of the
examples herein have an
equivalent code listed***

alongside through the text. To avoid repetition though, some example programs were omitted whenever there was resemblance to another example elsewhere, to

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***which the reader is kindly
requested to refer to.
The technological
advances of recent years
include the emergence of
new remote sensing and
geographic information***

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***systems that are
invaluable for the study
of wetlands, agricultural
land, and land use
change. Students,
hydrologists, and
environmental engineers***

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***are searching for a
comprehensive
hydrogeologic overview
that supplements
information on hydrologic
processes with data on
these new information***

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technology tools.

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Second Edition builds
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the bestselling first
edition by providing a
qualitative understanding***

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***of hydrologic processes
while introducing new
methods for quantifying
hydrologic parameters
and processes. Written
by authors with extensive
multidisciplinary***

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***experience, the text first
discusses the
components of the
hydrologic cycle, then
follows with chapters on
precipitation, stream
processes, human***

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***impacts, new information
system applications, and
numerous other methods
and strategies. By
updating this thorough
text with the newest
analytical tools and***

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***measurement
methodologies in the
field, the authors provide
an ideal reference for
students and
professionals in
environmental science,***

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***hydrology, soil science,
geology, ecological
engineering, and
countless other
environmental fields.
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Disaster Management**

Elementary Hydrology

Problems and Solutions

Applied Hydrogeology

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"Presents several advanced topics including fourth-order tensors, differentiation of tensors, exponential and logarithmic tensors, and their application to nonlinear elasticity"--

While most books examine only the

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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

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hydrological and ecological connectivity, and considers the worldwide impact of climate change. It also provides updated material on hydrological science and engineering, discussing recent developments as well as classic

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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

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contains 29 chapters in each book. Students, practitioners, policy makers, consultants and researchers can benefit from the use of this text.

Effective utilization of satellite positioning, remote sensing, and

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GIS in disaster monitoring and management requires research and development in numerous areas, including data collection, information extraction and analysis, data standardization, organizational and legal aspects of sharing of

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remote sensing information. This book provides a solid overview of what is being developed in the risk prevention and disaster management sector.

A Text Book of Hydrology
Principles and Practices

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Hydrology for Engineers
Handbook of Engineering
Hydrology (Three-Volume Set)
Flow in Open Channels
An unsurpassed treatise on the state-of-
the-science in the research and design
of spillways and energy dissipators,

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Hydraulics of Spillways and Energy
Dissipators compiles a vast amount of
information and advancements from
recent conferences and congresses
devoted to the subject. It highlights
developments in theory and practice
and emphasizing top
In some places, the order of

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presentation has been changed to fine-tune the book's effectiveness as a senior and graduate-level teaching text. Fabrication principles covered include those for such circuits as CMOS, BIPOLAR, BICMOS, FET, and more. An attempt is made to place before students (degree and post-degree) and

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professionals in the fields of Civil and Agricultural Engineering, Geology and Earth Sciences, this important branch of Hydroscience, 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

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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.

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Problems for assignment are given at the end of each chapter, along with objective type and intelligence questions.

Engineering Fluid Mechanics Solution Manual

Fundamentals of Statistical Hydrology
Hydrology and Floodplain Analysis

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Fifth Edition

International experts from around the globe present a rich variety of intriguing developments in time series analysis in hydrology and environmental engineering. Climatic change is of great concern to everyone and significant contributions to

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this challenging research topic are put forward by internationally renowned authors. A range of interesting applications in hydrological forecasting are given for case studies in reservoir operation in North America, Asia and South America. Additionally, progress in entropy research is described and entropy concepts are

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applied to various water resource systems problems. Neural networks are employed for forecasting runoff and water demand. Moreover, graphical, nonparametric and parametric trend analyses methods are compared and applied to water quality time series. Other topics covered in this landmark volume include spatial analyses,

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spectral analyses and different methods for stream-flow modelling. Audience The book constitutes an invaluable resource for researchers, teachers, students and practitioners who wish to be at the forefront of time series analysis in the environmental sciences.

The fourth edition of this bestselling

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textbook has been fully revised in order to present the most up-to-date and comprehensive guide to completing a hydrogeological study. Beautifully presented with full colour photos and diagrams throughout, Field Hydrogeology retains its practical pocket size for easy use in the field. This new edition includes all

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the recent developments in the environmental regulations, with particular focus on the use of innovative technology. New topics include geothermal energy, soakaways, marrying manual water level readings with logger records, prediction of long-term drawdown and lateral extent of impacts, and flow measurement in

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locations with small head gradients. With case studies and text boxes to aid comprehension, and a particular emphasis on practical application, this is an essential tool for students taking Hydrogeology and/or field course modules in Geology, Earth Sciences, Hydrogeology and Engineering courses.

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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

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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. Hydraulics of Spillways and Energy Dissipators

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1000 solved problems in fluid mechanics
(includes hydraulic machines)

The Handbook of Groundwater
Engineering

Water Resources Engineering

Stochastic and Statistical Methods in
Hydrology and Environmental
Engineering

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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

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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

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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

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professional scientists and engineers in hydrology, environmental science, meteorology, agronomy, geology, climatology, oceanology, glaciology and other earth sciences.

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

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9780070648555, ISBN (10):
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This textbook covers the main applications of statistical methods in hydrology. It is written for upper undergraduate and graduate students but can be used as a helpful guide for hydrologists, geographers,

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meteorologists and engineers. The book is very useful for teaching, as it covers the main topics of the subject and contains many worked out examples and proposed exercises. Starting from simple notions of the essential graphical examination of hydrological data, the book gives a

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complete account of the role that probability considerations must play during modelling, diagnosis of model fit, prediction and evaluating the uncertainty in model predictions, including the essence of Bayesian application in hydrology and statistical methods under nonstationarity. The

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book also offers a comprehensive and useful discussion on subjective topics, such as the selection of probability distributions suitable for hydrological variables. On a practical level, it explains MS Excel charting and computing capabilities, demonstrates the use of Winbugs free software to

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solve Monte Carlo Markov Chain (MCMC) simulations, and gives examples of free R code to solve nonstationary models with nonlinear link functions with climate covariates.

An Introduction

Applied Hydrology

Engineering Hydrology

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A Textbook of Fluid Mechanics
Probability and Statistics in Hydrology
The Book Irrigation And Water
Resources Engineering Deals With
The Fundamental And General
Aspects Of Irrigation And Water
Resources Engineering And

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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

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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

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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

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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

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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

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Unsolved Exercises And The List
Of References Given At The End
Of Each Chapter Useful.

Less than 1% of the Earth's water
is available for human use, the
average family uses 400 gallons of
water daily, and expected

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population growth means an increase in water use. The study of hydrology—how water behaves as it moves through the water cycle—is vital to reducing strains on our water supply and infrastructure. Written for those who want to

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understand hydrologic principles without a background in mathematics, Manning's basic water science text begins with the physical and chemical attributes that make water a unique substance and proceeds with a

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step-by-step discussion of the water cycle. Scientific principles are illustrated by real-world examples, while “investigations” sections offer practical suggestions for making measurements and/or interpretations of hydrological

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variables in the local environment and for applying principles discussed in the text. This well-structured, reader-friendly text benefits not only students in elementary hydrology courses, but also those studying broader areas

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of natural resources, ecology, geography, and urban planning. Students are exposed to hydrology for the first time primarily through this course, and students taking the course have not had an opportunity to be exposed to hydrologic jargon

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before. And, in most cases this course may be the only course the students may have in hydrology in their undergraduate schooling. Therefore, this hydrology course must be at an elementary level, present basic concepts of

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hydrology, and develop a flavor for application of hydrology to the solution of a range of environmental problems. It is these considerations that motivated the writing of this book.

Continuum Mechanics

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PRINCIPLES OF
TRANSPORTATION
ENGINEERING

Hydrology

Mechanics of Materials

VLSI Fabrication Principles

Environmental engineers continue to

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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

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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.

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Environmental engineers will refer to this text throughout their careers.

There is a continued demand for well-trained and competent hydrogeologists, especially in the environmental sector. For decades, Fetter ' s Applied Hydrogeology has helped prepare students to excel in

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careers in hydrogeology or other areas of environmental science and engineering where a strong background in hydrogeology is needed. The text 's long-standing tradition as a vital resource is further enhanced in the fifth edition by Kreamer 's added expertise. Stressing

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the application of mathematics to problem-solving, example problems throughout the book provide students the opportunity to gain a much deeper understanding of the material. Some important topics include the properties of aquifers, the principles of groundwater flow, water chemistry,

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water quality and contamination, and groundwater development and management. The addition of new case studies and end-of-chapter problems will strengthen understanding of the occurrence and movement of ground water in a variety of geological settings.

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Characteristics of hydrologic phenomena; Random variables and their distributions; Various probability topics applied to hydrology; Statistics and hydrology; Empirical distributions of hydrologic variables; Parameters and order-statistics as descriptors of distributions; Probability distribution

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functions in hydrology; Estimation methods; Sampling Theory; Testing hypotheses and goodness of fit; Correlation and regression; Multivariate analysis.

Problem Solving in Engineering Hydrology

Fluid Mechanics and Hydraulic

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Machines

A Textbook of Fluid Mechanics and
Hydraulic Machines
Environmental Hydrology, Second
Edition
Third Edition