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This document discusses the physical processes of the hydrologic cycle that are important to highway

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engineers. These processes include the approaches, methods and assumptions applied in design and analysis of highway drainage structures. Hydrologic methods of primary interest are frequency analysis for

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analyzing rainfall and ungaged data; empirical methods for peak discharge estimation; and hydrograph analysis and synthesis. The document describes the concept and several approaches for determining

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time of concentration. The peak discharge methods discussed include log Pearson type III, regression equations, the SCS graphical method (curve number method), and rational method. The technical

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discussion of each peak flow approach also includes urban development applications.

The document presents common storage and channel routing techniques related to highway drainage hydrologic analyses. The document

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describes methods used in the planning and design of stormwater management facilities. Special topics in hydrology include discussions of arid lands hydrology, wetlands hydrology, snowmelt

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hydrology, and hydrologic modeling, including geographic information system approaches and applications. This edition includes new sections on wetlands hydrology and snowmelt hydrology, an

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expanded section on arid  
lands hydrology, corrections  
of minor errors, and  
inclusion of dual units.

There is a dearth of  
relevant books dealing with  
both theory and application  
of time series analysis



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techniques, particularly in the field of water resources engineering. Therefore, many hydrologists and hydrogeologists face difficulties in adopting time series analysis as one of the tools for their

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research. This book fills this gap by providing a proper blend of theoretical and practical aspects of time series analysis. It deals with a comprehensive overview of time series characteristics in

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hydrology/water resources  
engineering, various tools  
and techniques for analyzing  
time series data,  
theoretical details of 31  
available statistical tests  
along with detailed  
procedures for applying them

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to real-world time series data, theory and methodology of stochastic modelling, and current status of time series analysis in hydrological sciences. In addition, it demonstrates the application of most time

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series tests through a case study as well as presents a comparative performance evaluation of various time series tests, together with four invited case studies from India and abroad. This book will not only serve as

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a textbook for the students  
and teachers in water  
resources engineering but  
will also serve as the most  
comprehensive reference to  
educate  
researchers/scientists about  
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time series analysis in hydrological sciences. This book will be very useful to the students, researchers, teachers and professionals involved in water resources, hydrology, ecology, climate change, earth science, and

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environmental studies.

The third edition of  
Fundamentals of Hydrology  
provides an absorbing and  
comprehensive introduction  
to the understanding of how  
fresh water moves on and  
around the planet and how



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humans affect and manage the freshwater resources available to them. The book consists of three parts, each of fundamental importance in the understanding of hydrology: The first section deals with

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processes within the hydrological cycle, our understanding of them, and how to measure and estimate the amount of water within each process. This also includes an analysis of how each process impacts upon

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water quality issues. The second section is concerned with the measurement and analytical assessment of important hydrological parameters such as streamflow and water quality. It describes

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analytical and modelling techniques used by practising hydrologists in the assessment of water resources. The final section of the book draws together the first two parts to discuss the management of

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freshwater with respect to both water quality and quantity in a changing world. Fundamentals of Hydrology is a lively and accessible introduction to the study of hydrology at university level. It gives

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undergraduates a thorough understanding of hydrological processes, knowledge of the techniques used to assess water resources, and an up-to-date overview of water resource management. Throughout the

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text, examples and case studies from all around the world are used to clearly explain ideas and techniques. Essay questions, guides to further reading, and website links are also included.

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This book explains the basic technologies, concepts, approaches, and terms used in relation to reservoir rocks. Accessible to engineers in varying roles, it provides the tools necessary for building



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reservoir characterization and simulation models that improve resource definition and recovery, even in complex depositional environments. The book is enriched with numerous examples from a wide variety

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of applications, to help readers understand the topics. It also describes in detail the key relationships between the different rock properties and their variables. As such, it is of interest to researchers,

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engineers, lab technicians,  
and postgraduate students in  
the field of petroleum  
engineering.

A Study of the Water Cycle  
Forest Hydrology  
Hydrologic Hazards Science  
at the U.S. Geological

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For almost three decades, Roger

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important subject. The eighth edition of Software Engineering: A Practitioner's Approach has been designed to consolidate and restructure the content introduced over the past two editions of the book. The chapter structure will

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return to a more linear presentation of software engineering topics with a direct emphasis on the major activities that are part of a generic software process. Content will focus on widely used software engineering

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methods and will de-emphasize or completely eliminate discussion of secondary methods, tools and techniques. The intent is to provide a more targeted, prescriptive, and focused approach, while attempting to



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maintain SEPA's reputation as a comprehensive guide to software engineering. The 39 chapters of the eighth edition are organized into five parts - Process, Modeling, Quality Management, Managing Software Projects, and Advanced

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Topics. The book has been revised and restructured to improve pedagogical flow and emphasize new and important software engineering processes and practices.

Within the realm of the newly

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evolving discipline of environmental sciences, the stable-isotope methodology is being used to an ever-increasing extent, especially in the study of the water cycle and of paleo-climatology. This book introduces the rules of

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the game, by reviewing the natural variability of stable isotopes in the hydrosphere, describing the physico-chemical basis of isotope fractionation, and applying this knowledge to natural waters as they move through the

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hydrologic cycle from the ocean to the atmosphere, the biosphere and the lithosphere. There is a special focus on the processes at the surface?atmosphere and land?biosphere?atmosphere interfaces, since these are the

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sites of major changes in isotope composition. In response to the increasing awareness of our changing climate, a discussion on the global view of the changing water cycle, in the past and future, winds up the presentation.

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The book presents high-quality papers presented at 3rd International Conference on Applications of Fluid Dynamics (ICAFD 2016) organized by Department of Applied Mathematics, ISM Dhanbad,

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Jharkhand, India in association  
with Fluid Mechanics Group,  
University of Botswana, Botswana.  
The main theme of the Conference  
is "Sustainable Development in  
Africa and Asia in context of Fluid  
Dynamics and Modeling



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Approaches". The book is divided into seven sections covering all applications of fluid dynamics and their allied areas such as fluid dynamics, nanofluid, heat and mass transfer, numerical simulations and investigations of

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fluid dynamics,  
magnetohydrodynamics flow,  
solute transport modeling and  
water jet, and miscellaneous. The  
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dynamics.

Directly oriented towards real practical application, this book develops both the basic theoretical framework of extreme value models and the statistical inferential techniques for using

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these models in practice. Intended for statisticians and non-statisticians alike, the theoretical treatment is elementary, with heuristics often replacing detailed mathematical proof. Most aspects of extreme modeling techniques

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are covered, including historical techniques (still widely used) and contemporary techniques based on point process models. A wide range of worked examples, using genuine datasets, illustrate the various modeling procedures and

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a concluding chapter provides a brief introduction to a number of more advanced topics, including Bayesian inference and spatial extremes. All the computations are carried out using S-PLUS, and the corresponding datasets and

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functions are available via the Internet for readers to recreate examples for themselves. An essential reference for students and researchers in statistics and disciplines such as engineering, finance and environmental

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science, this book will also appeal to practitioners looking for practical help in solving real problems. Stuart Coles is Reader in Statistics at the University of Bristol, UK, having previously lectured at the universities of



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Nottingham and Lancaster. In 1992 he was the first recipient of the Royal Statistical Society's research prize. He has published widely in the statistical literature, principally in the area of extreme value modeling.

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hydrology

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English, abstract: Water



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balance techniques have been extensively used to make quantitative estimates of water resources and the impact of man's activities on the hydrologic cycle. On the basis of the water balance approach, it is

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possible to make a quantitative evaluation of water resources and its dynamic behaviour under the influence of man's activities. In this article, an attempt has been made to describe the methodologies

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to understand and evaluate the various recharge and discharge components of groundwater balance equation and to establish the recharge coefficient with a view to work out the groundwater potential of an area.

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allow evaporation back into the atmosphere, thus regulating how much water reaches the forest floor as through fall, as well as pull water from the soil for transpiration. The discipline "forest

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hydrology" has been developed throughout the 20th century. During that time human intervention in natural landscapes has increased, and land use and management practices have intensified. The book will

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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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printouts. Suitable for education in hydrogeology at postgraduate and graduate level, the text is also a useful reference tool for professionals and decision-makers involved in water or water-related activities. In the revised

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paperback edition of Introduction to Hydrogeology (February 2006), suggestions of reviewers, students and colleagues have been taken into account. This means that more attention is paid to the processes in the

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unsaturated zone, especially those relating to groundwater recharge. Also, in the revised edition, the investigation methods are highlighted in the sections where the related theory is dealt with, and they are not presented

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in the last chapter on groundwater management. Chapter titles are re-named and some definitions are adjusted. The References and Bibliography section is also extended, some figures are improved, and the unavoidable

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'typing errors' are corrected as well.

Sustainable Water Resources Management presents the most current thinking on the environmental, social, and political dimensions of sustainably

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managing the water supply at local, regional, or basin levels. This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate



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extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and

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severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in

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frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be

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

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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

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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

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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



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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

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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

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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

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water sciences.

Proceedings of ICDAM

Stochastic Hydrology and its Use  
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Simulation and Optimization

Water Supply Engineering

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*Stochastic hydrology is an  
essential base of water  
resources systems  
analysis, due to the  
inherent randomness of the*

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*input, and consequently of the results. These results have to be incorporated in a decision-making process regarding the planning and management of water systems. It is through*

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*this application that  
stochastic hydrology finds  
its true meaning,  
otherwise it becomes  
merely an academic  
exercise. A set of well  
known specialists from*

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*both stochastic hydrology  
and water resources  
systems present a  
synthesis of the actual  
knowledge currently used  
in real-world planning and  
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*intended for both  
practitioners and  
researchers who are  
willing to apply advanced  
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incorporating hydrological  
randomness and uncertainty*

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*into the simulation and  
optimization of water  
resources systems.*

*(abstract) Stochastic  
hydrology is a basic tool  
for water resources  
systems analysis, due to*

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*inherent randomness of the hydrologic cycle. This book contains actual techniques in use for water resources planning and management, incorporating randomness*

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*into the decision making process. Optimization and simulation, the classical systems-analysis technologies, are revisited under up-to-date statistical hydrology*

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*English, abstract:  
Accurate and reliable  
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information (including  
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