

Elements Of Physical Hydrology

John F. Hermance

Elements Of Physical Hydrology:

Elements of Physical Hydrology George M. Hornberger, Patricia L. Wiberg, Jeffrey P. Raffensperger, Paolo D'Odorico, 2014-08-11 Thoughtfully illustrated carefully written and covering a broad spectrum of topics this classic text clarifies a subject that is often misunderstood and oversimplified **Elements of Physical Hydrology** Porter Kling, 2018

Elements of Physical Oceanography John H. Steele, Steve A. Thorpe, Karl K. Turekian, 2009-12-16 Elements of Physical Oceanography is a derivative of the Encyclopedia of Ocean Sciences 2nd Edition and serves as an important reference on current physical oceanography knowledge and expertise in one convenient and accessible source Its selection of articles all written by experts in their field focuses on ocean physics air sea transfers waves mixing ice and the processes of transfer of properties such as heat salinity momentum and dissolved gases within and into the ocean Elements of Physical Oceanography serves as an ideal reference for topical research References related articles in physical oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference

The Civil Engineering Handbook W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering

Methods in Karst Hydrogeology Nico Goldscheider, David Drew, 2014-04-21 Filling a gap in the karst literature this book describes methods most appropriate for use in karst terrains These include methods that are basic to all hydrogeological studies such as hydraulic investigations hydrochemistry geophysics isotope chemistry and modelling with the emphasis placed on their application to karst systems The various chapters of this book are written by experts in all the different methods Most of the chapters are multi authored and the authors include hydrogeologists who are experienced in evaluating a variety of karst environments and who together provide a balanced view of all the karst methods

Engineering Hydrology for Natural Resources Engineers Ernest W. Tollner,2023-08-14 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 NOAH 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 Natural Catastrophe Risk Management and Modelling Kirsten Mitchell-Wallace, Matthew Jones, John Hillier, Matthew Foote, 2017-06-26 This book covers both the practical and theoretical aspects of catastrophe modelling for insurance industry practitioners and public policymakers Written by authors with both academic and industry experience it also functions as an excellent graduate level text and overview of the field Ours is a time of unprecedented levels of risk from both natural and anthropogenic sources Fortunately it is also an era of relatively inexpensive technologies for use in assessing those risks The demand from both commercial and public interests including re insurers NGOs global disaster management agencies and local authorities for sophisticated catastrophe risk assessment tools has never been greater and contemporary catastrophe modelling satisfies that demand Combining the latest research with detailed coverage of state of the art catastrophe modelling techniques and technologies this book delivers the knowledge needed to use interpret and build catastrophe models and provides greater insight into catastrophe modelling s enormous potential and possible limitations The first book containing the detailed practical knowledge needed to support practitioners as effective catastrophe risk modellers and managers Includes hazard vulnerability and financial material to provide the only independent comprehensive overview of the subject accessible to students and practitioners alike Demonstrates the relevance of catastrophe models within a practical decision making framework and illustrates their many applications Includes contributions from many of the top names in the field globally from industry academia and government Natural Catastrophe Risk Management and Modelling A Practitioner's Guide is an important working resource for catastrophe modelling analysts and developers actuaries underwriters and those working in compliance or regulatory functions related to catastrophe risk It is also valuable for scientists and engineers seeking to gain greater insight into catastrophe risk management and its applications Encyclopedia of Atmospheric Sciences Gerald R. North, John A. Pyle, Fuging Zhang, 2014-09-14 Encyclopedia of Atmospheric Sciences Second Edition Six Volume Set is an authoritative resource covering all aspects of atmospheric sciences including both theory and applications With more than 320 articles and 1 600 figures and photographs this revised version of the award winning first edition offers comprehensive coverage of this important field The six volumes in this set contain broad ranging articles on topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction The Encyclopedia is an ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences It is written at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Covers all

aspects of atmospheric sciences including both theory and applications Presents more than 320 articles and more than 1 600 figures and photographs Broad ranging articles include topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction An ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences Soil and Water Contamination Marcel van der Perk, 2017-10-09 Soil and Water Contamination Second Edition gives a structured overview of transport and fate processes of environmental contaminants Providing a structured overview of transport and fate processes of environmental contaminants this textbook approaches the environmental issues of soil and water contamination from a spatial and earth science point of view The new edition contains new material on pesticides and pharmaceutical contaminants and a greater number of exercises case studies and examples It covers topics essential to understanding and predicting contaminant patterns in soil groundwater and surface water and contributes to the formation of a solid basis for adequate management and control of soil and water pollution and integrated **Mountain Resorts** Julia LeMense, 2016-04-22 Mountains are the home of significant ecological resources catchment wildlife habitat higher elevation plant systems steep slopes delicate soils and water systems. These resources are subject to very visible and growing pressures most of which are caused by the unique features of mountains Using as case studies four mountain resorts in the US and Canada this book analyzes the extent to which the law protects the ecological systems of mountains from the adverse impacts associated with the development operation and expansion of resorts In order to examine these issues Mountain Resorts takes an interdisciplinary approach with contributions from ecologists and lawyers who focus on ski related activities increasing four season use of the mountains and expanding residential commercial and recreational development at the mountains base Its analysis of an array of US and Canadian federal state and local laws provides a multifaceted exploration of the intersection of ecology and the law at mountain resorts A Mathematical Primer on Groundwater Flow John F. Hermance, 1999 A Mathematical Primer on Groundwater Flow is a primer not a treatise designed to supplement not replace the standard textbooks used in most university level hydrogeology courses Primarily directed to undergraduate juniors and seniors with a modest background in physics engineering and applied mathematics the text should also appeal to professionals designing to brush up on the mathematical side of groundwater flow on their own

Sustainability John C. Ayers,2017-06-26 This book presents an earth science based overview of the challenges to sustainability It provides a detailed study of climate change as well as energy food and water security across different regions The author uncovers the problems caused by current social and environmental practices and offers potential solutions Focusing on systems theory footprint analysis risk and resilience many examples are given of how to use resources sustainably especially common pool resources such as the atmosphere oceans and groundwater The book develops its ideas from an array of practical case studies centering on communal objectives and shared responsibilities *Ecosystem*

Biogeochemistry Christopher S. Cronan, 2017-10-05 This textbook presents a comprehensive process oriented approach to biogeochemistry that is intended to appeal to readers who want to go beyond a general exposure to topics in biogeochemistry and instead are seeking a holistic understanding of the interplay of biotic and environmental drivers in the cycling of elements in forested watersheds The book is organized around a core set of ecosystem processes and attributes that collectively help to generate the whole system structure and function of a terrestrial ecosystem In the first nine chapters a conceptual framework is developed based on distinct soil microbial plant atmospheric hydrologic and geochemical processes that are integrated in the element cycling behavior of watershed ecosystems. With that conceptual foundation in place students then proceed to the final three chapters where they are challenged to think critically about integrated element cycling patterns roles for biogeochemical models the likely impacts of disturbance stress and management on watershed biogeochemistry and linkages among patterns and processes in watersheds experiencing novel environmental changes Included with the text are figures tables of comparative data extensive literature citations a glossary of terms an index and a set of 24 biogeochemical problems with answers The problems are intended to support chapter concepts and to demonstrate how critical thinking skills simple algebra and thoughtful human logic can be used to solve applied problems in biogeochemistry that might be encountered by a research scientist or a resource manager Using this book as an introduction to biogeochemistry students will achieve a level of subject mastery and disciplinary perspective that will permit them to see and to interpret the individual components interactions and synergies that are represented in the dynamic element cycling patterns of watershed ecosystems Standard Handbook of Environmental Science, Health, and Technology Jay H. Lehr, Janet K. Lehr, 2000 The most comprehensive single volume ever assembled for the environmental professional a one stop all under one roof overview of environmental engineering subject areas and a task simplifying toolkit designed to simplify day to day decisions Covers the varied topics of interest for today s environmental scientist mathematical modeling statistics plant pathology as well as engineering problem solving management decision making and public communication The perfect resource for biologists hydrologists geologists engineers chemists and toxicologists Packed with numerous tables charts illustrations sampling methods monitoring methods testing methods control techniques equipment maintenance procedures and calculation methods Includes lesson filled editorial commentary by many of the nearly 100 environmental scientists who have contributed to this book Earth Science: Weather, water, and the atmosphere James A. Woodhead, 2001 Presents cross referenced essays on basic topics related to planetology and Earth from space each essay **Journal of Geoscience Education**, 2000 includes an annotated bibliography The Best Books for Academic Libraries: Social sciences, 2002 Books recommended for undergraduate and college libraries listed by Library of Congress Classification Numbers National and International Environmental Monitoring Activities, a Directory Smithsonian Institution. Center for Short-lived Phenomena. 1970 The Software Encyclopedia ,1986 Journal of Soil and Water

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