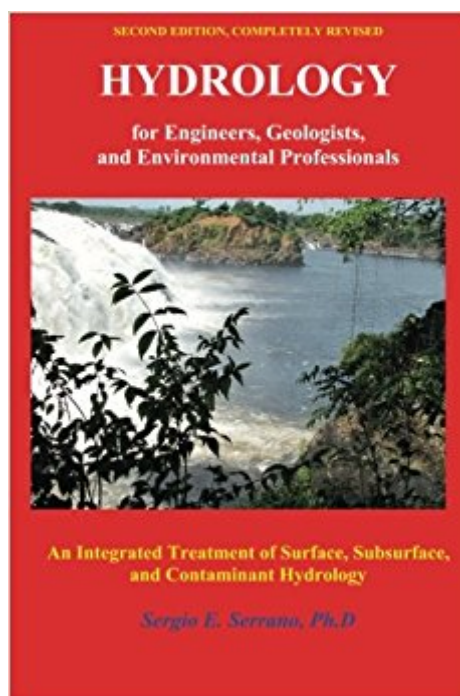




Ebook Directory
the best source of ebook

The book was found

Hydrology For Engineers, Geologists, And Environmental Professionals, Second Edition: An Integrated Treatment Of Surface, Subsurface, And Contaminant Hydrology



Synopsis

An integrated coverage of the subjects of surface, subsurface, and contaminant hydrology. The author presents the fundamental concepts of physical and contaminant hydrology of watersheds, rivers, lakes, soils, and aquifers in an easy and accessible manner to the environmental professional. Prepares the reader to analyze today's environmental problems. Many practical examples and solved problems illustrate the concepts. This edition includes clear presentation of concepts, consistent notation, 124 solved examples, 187 proposed problems, 152 illustrations, 71 tables, 46 short computer programs in MAPLE, answers to problems, extensive bibliography. State of the art research on groundwater and contaminant transport modeling is explained in a clear fashion. Recent research developments in nonlinear hydrologic science and simulation are included in this new edition. New solutions of nonlinear infiltration are presented with simple numerical applications. New developments in analytical decomposition are presented as simple and practical means to complex nonlinear hydrologic problems, such as regional groundwater flow modeling in homogeneous or heterogeneous media, regular or irregularly-shaped domains, steady or transient problems, multiple pumping wells, and nonlinear flow. 125 solved examples, 70 computer programs, 146 proposed problems, 17 illustrations, 118 computer graphs, answers to problems, detailed bibliography. or contaminant transport, new applications to the simulation of nonlinear decay, nonlinear sorption, and unsaturated-saturated zones contaminant propagation are presented along with simple programs.

INDEPENDENT REVIEWS

"The author should be congratulated for putting for the first time such diverse set of topics into one coherent text, successfully linking hydrological sciences and environmental protection." *Journal of Hydrology*

"The presentations are clear and concise and the illustrative examples are well chosen and complement the text." *Transactions, American Geophysical Union*

"... an important contribution to link environmental issues and hydrological sciences." *Hydrological Sciences Journal*

"The chapter topics and organization of the book are presented in excellent format...The figure, table, paragraph, and chapter layouts are easily followed by the reader..." *Journal of the American Water Resources Association*

"... a novelty is introduced by presenting the method of decomposition as a new analytical technique for nonlinear problems...Modern concepts of scale-dependent dispersion are also introduced... recommend this book for its clear presentation of concepts and illustrative examples, and for its emphasis on environmental problems." *Mathematical Geology*

"In addition to students, this book should prove useful to professional consulting engineers, geologists, and environmental engineers ... due to its comprehensive coverage... to chemical engineers involved with waste disposal or site remediation, or who deal with water as an energy carrier..." *Chemical*

Engineering progress "... presents concepts in an easy and accessible manner to the environmental professional... Many practical examples and solved problems illustrate the concepts..." Environmental Geology "The author...emphasizes clarity over comprehensiveness..." Groundwater

Book Information

Paperback: 590 pages

Publisher: HydroScience, Incorporated; 2 edition (July 13, 2010)

Language: English

ISBN-10: 0965564347

ISBN-13: 978-0965564342

Product Dimensions: 6 x 1.3 x 9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #67,674 in Books (See Top 100 in Books) #13 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology](#) #125 in [Books > Textbooks > Science & Mathematics > Environmental Studies](#) #254 in [Books > Textbooks > Science & Mathematics > Earth Sciences](#)

Customer Reviews

"The author should be congratulated for putting for the first time such diverse set of topics into one coherent text, successfully linking hydrological sciences and environmental protection." Journal of Hydrology "The presentations are clear and concise and the illustrative examples are well chosen and complement the text." Transactions, American Geophysical Union "... an important contribution to link environmental issues and hydrological sciences." Hydrological Sciences Journal "The chapter topics and organization of the book are presented in excellent format...The figure, table, paragraph, and chapter layouts are easily followed by the reader..." Journal of the American Water Resources Association "... a novelty is introduced by presenting the method of decomposition as a new analytical technique for nonlinear problems...Modern concepts of scale-dependent dispersion are also introduced... recommend this book for its clear presentation of concepts and illustrative examples, and for its emphasis on environmental problems." Mathematical Geology "In addition to students, this book should prove useful to professional consulting engineers, geologists, and environmental engineers ... due to its comprehensive coverage... to chemical engineers involved with waste disposal or site remediation, or who deal with water as an energy carrier..." Chemical

Engineering progress "... presents concepts in an easy and accessible manner to the environmental professional... Many practical examples and solved problems illustrate the concepts..."

Environmental Geology "The author...emphasizes clarity over comprehensiveness..." Groundwater

Dr. Sergio E. Serrano received his Ph.D. degree at the University of Waterloo (Canada). He is a full professor of engineering science and applied mathematics at a Research I university in the U. S. For the past thirty years, he has taught in several universities in the United States, Canada, Colombia, Spain, and China. He has over one hundred research publications in international science, engineering, and mathematics journals. He is also the author of nine books in environmental engineering, statistics, philosophy, and psychology. He has been an associate editor of the Water Science and Technology Library and the ASCE Journal of Hydrologic Engineering. Dr. Serrano pioneered the development of several new solutions of nonlinear equations in surface, subsurface, and contaminant hydrology. Dr. Serrano has been awarded four times with nationally-competitive research grants by the National Science Foundation, Washington, DC.

A VERY CLEAR TEST. BUT IT FAILS ABOUT NOT TO AVAIBLE THE SOFTWARE MAPLE

[Download to continue reading...](#)

Hydrology for Engineers, Geologists, and Environmental Professionals, Second Edition: An Integrated Treatment of Surface, Subsurface, and Contaminant Hydrology Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers, Volume 61, Second Edition (Developments in Petroleum Science) SURFACE AND SUBSURFACE DRIP IRRIGATION: Impacts on Soil Moisture and its Distribution in Irrigated Environment 3-D Structural Geology: A Practical Guide to Quantitative Surface and Subsurface Map Interpretation Hydrology and Global Environmental Change (Understanding Global Environmental Change) 1st (first) Edition by Arnell, Prof Nigel published by Prentice Hall (2002) Hydrology and Global Environmental Change (Understanding Global Environmental Change) Ground and Surface Water Hydrology Surface Wave Methods for Near-Surface Site Characterization Contaminant Hydrogeology (2nd Edition) Applied Subsurface Geological Mapping with Structural Methods (2nd Edition) Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists Whole Earth Geophysics: An Introductory Textbook for Geologists and Geophysicists Basic Well Log Analysis for Geologists Statistics for Environmental Engineers, Second Edition Groundwater Optimization Handbook: Flow, Contaminant Transport, and Conjunctive Management Flow and Contaminant Transport in Fractured Rock Quick Reference Neuroscience for Rehabilitation

Professionals: The Essential Neurological Principles Underlying Rehabilitation Professionals,
Second Edition Contaminant Hydrogeology Applied Contaminant Transport Modeling Introduction to
Applied Geophysics: Exploring the Shallow Subsurface

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)