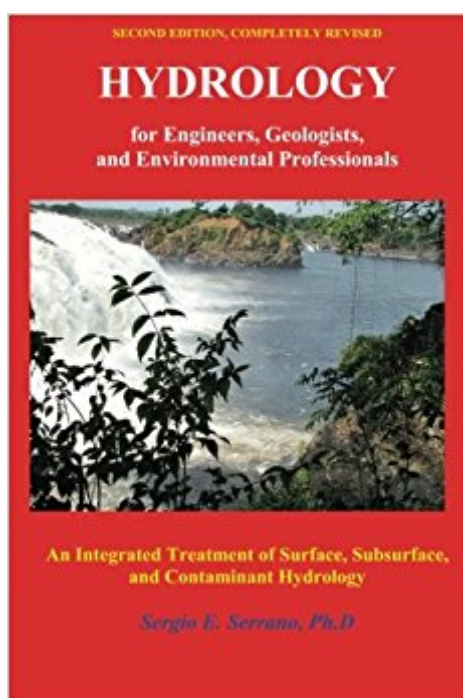


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# Hydrology For Engineers, Geologists, And Environmental Professionals, Second Edition: An Integrated Treatment Of Surface, Subsurface, And Contaminant Hydrology



## 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*

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"... 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

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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.

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