



# **Hydrology for Engineers, Geologists, and Environmental Professionals, Second Edition: An Integrated Treatment of Surface, Subsurface, and Contaminant Hydrology**

*Sergio E Serrano Ph.D.*

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*Sergio E Serrano Ph.D.*

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This second edition of "Hydrology for Engineers, Geologists and Environmental Professionals" is completely revised and updated. It contains recent research developments in nonlinear hydrologic science and simulation. New simple meshless techniques for the modeling of groundwater flow and reactive contaminant transport in unsaturated and saturated media are included along with short programs. This edition includes clear presentation of concepts, consistent notation, 124 solved examples, 187 proposed problems, 152 illustrations, 71 tables, 46 short computer programs, answers to problems, extensive bibliography. "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.." *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..." *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..." *Environmental Geology* "The author...emphasizes clarity over comprehensiveness..." *Ground Water*

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