



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

By Sergio E. Serrano

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Hydrology for Engineers, Geologists and Environmental Professionals integrates the subjects of surface, subsurface, and contaminant hydrology. It prepares the reader to analyze today's environmental problems. 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. Many practical examples and solved problems illustrate the concepts. State of the art research on groundwater and contaminant transport modeling is explained in a clear fashion. Hydrology for Engineers, Geologists and Environmental Professionals includes a free copy of KYSPILL, the easiest and most sophisticated groundwater pollution model in the market.

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### Review

" text is concise, easy to understand, comprises together with simple figures, numerous examples: a textbook which students will appreciate." -- *Hydrological Sciences Journal*

"...putting for first time such diverse topics into one coherent text, successfully linking hydrological sciences and environmental protection..." -- *Journal of Hydrology*

"Organization...presented in excellent format...chapters follow logical path...demonstrate these various components using text and well designed example problems." -- *Journal of The American Water Resources Association*

"Presentations are clear and concise...illustrative examples are well chosen and complement the text...problems are of high quality..." -- *Transactions American Geophysical Union*

"Simple and clear...Consistent notation...metric system... a novelty...new analytical technique for nonlinear problems...Modern concepts...are also introduced." -- *Mathematical Geology*

### From the Publisher

1. Prepares the reader for today's environmental problems 2. Fundamentals of physical and contaminant hydrology 3. Surface, subsurface, and groundwater flow 4. Clear presentation of concepts 5. Over 70 solved examples, and 160 proposed problems 6. Over 120 illustrations 7. Integrated description of notation and dimensions 8. New methods of groundwater flow and transport modeling 9. Includes the KYSPILL groundwater pollution software 10. Proposed problems, computer laboratory, references

### From the Author

This work is a response to the need for a hydrology book with a clear, balanced approach to surface, subsurface, and contaminant hydrology. There are several books devoted to surface hydrology, flood frequency analysis, storm water management, storm sewers design, and detention basins design. Those texts are part of the traditional association of hydrology with hydraulic engineering applications in civil engineering programs. Subsurface hydrology, and especially contaminant hydrology, are usually not included in traditional undergraduate hydrology texts. Contamination of rivers, lakes, soils, and groundwater are topics reserved to more advanced graduate courses. *Hydrology for Engineers, Geologists and Environmental Professionals* was written based on the following assumptions: (1) Every concept in hydrology may be explained in a simple fashion without losing scientific rigor and without resorting to detailed mathematical, statistical, or numerical analyses. (2) Clarity of presentation is more important than comprehensiveness; mastering of a fundamental concept allows the student to successfully analyze more difficult problems. (3) Learning is accomplished when the reader develops a sense of familiarity and confidence with the concepts. At that point the s/he acknowledges the simplicity of the subject and the desire to study more advanced concepts. (4) Hydrology is a science with applications in many engineering, geology and environmental disciplines, besides the traditional hydraulics and surface-runoff applications. (5) A first exposure to hydrology should reflect a balance between surface, subsurface, and contaminant hydrology.

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