



# Applied Hydrogeology for Scientists and Engineers

*Zekai Sen*

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## **Applied Hydrogeology for Scientists and Engineers** Zekai Sen

In order to properly plan, design, and operate groundwater resources projects, it is necessary to measure - over time or distance - pertinent groundwater variables such as drawdown and discharge in the field. Applied Hydrogeology for Scientists and Engineers shows how to assess and interpret these data by subsurface geological setup and processing. The book helps readers estimate relevant groundwater parameters such as storativity, transmissivity, and leakage coefficient.

The text addresses many interrelated disciplines such as geology, hydrology, hydrogeology, engineering, petroleum geology, and water engineering. Traditional and current models for application are presented. One of the unique features of the book is the inclusion of new and previously unpublished ideas, concepts, techniques, approaches, and procedures developed by the author. Among these are hydrogeophysical concepts, slope matching techniques, volumetric approach solution for complicated groundwater flows, non-Darcian flow law applications, aquifer sample functions, dimensionless-type straight line methods, non-linear flow-type curves, discharge calculations from early time-drawdown data, storage coefficient estimation procedure for quasi-steady state flow, and much more. The pitfalls in aquifer test analysis are also detailed. Fractured medium flow adds yet another dimension to the book. Each method is supplemented by actual field data applications from worldwide case studies.

Applied Hydrogeology for Scientists and Engineers covers the topics of groundwater reservoirs, the evaluation of aquifer parameters, aquifer and flow properties, flow properties and bore hole tests, aquifer tests in porous and fractured media, well hydraulics, groundwater flow and aquifer tests, and field measurements and their interpretations.

This new reference also works well as a post-graduate textbook on the subject. Applied Hydrogeology for Scientists and Engineers expands the reader's knowledge by providing valuable information not found in any other publication.

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