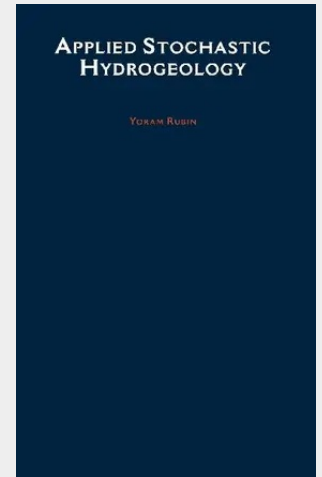


Applied Stochastic Hydrogeology

Stochastic hydrogeology, which emerged as a research area in the late 1970s, involves the study of subsurface, geological variability on flow and transport processes and the interpretation of observations using existing theories. Lacking, however, has been a rational framework for modeling the impact of the processes that take place in heterogeneous media and for incorporating it in predictions and decision-making. This book provides this important framework. It covers the fundamental and practical aspects of stochastic hydrogeology, coupling theoretical aspects with examples, case studies, and guidelines for applications.

Stochastic Subsurface Hydrogeology is the study of subsurface, geological heterogeneity, and its effects on flow and transport process, using probabilistic and geostatistical concepts. This book presents a rational, systematic approach for analyzing and modeling subsurface heterogeneity, and for modeling flow and transport in the subsurface, and for prediction and decision-making under uncertainty. The book covers the fundamentals and practical aspects of geostatistics and stochastic hydrogeology, coupling theoretical and practical aspects, with examples, case studies and guidelines for applications, and provides a summary and review of the major developments in these areas.

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