

1. Record Nr.	UNINA9910454171803321
Autore	Rubin Yoram
Titolo	Applied stochastic hydrogeology [[electronic resource] /] / Yoram Rubin
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2003
ISBN	0-19-756167-5 1-280-83465-X 0-19-803154-8
Descrizione fisica	1 online resource (412 p.)
Collana	Oxford scholarship online
Disciplina	551.49/01/5118
Soggetti	Hydrogeology - Mathematical models Stochastic analysis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2003.
Nota di bibliografia	Includes bibliographical references (p. 357-384) and index.
Nota di contenuto	Machine generated contents note: Important Terms, xiii -- Symbols, xv --1 Introduction, 3 -- 2 Fundamentals of Stochastic Site Characterization, 13 -- 3 Estimation and Simulation, 60 -- 4 Moments of the Flow Variables, Part I: The Flow Equation and the Hydraulic Head, 86 -- 5 Moments of the Flow Variables, Part II: The Effective Conductivity, 121 -- 6 Upscaling, Computational Aspects, and Statistics of the Velocity Field, 140 -- 7 An Overview of Stochastic Tools for Modeling Transport of Tracers in Heterogeneous Media, 161 -- 8 The Eulerian Picture: Principles of the Eulerian Approach to Modeling the Transport of Solutes, 169 -- 9 The Lagrangian Picture, Part I: Fundamentals of the Lagrangian Approach to Solute Transport, 200 -- 10 The Lagrangian Picture, Part II: Models and Applications of the Lagrangian Approach to Solute Transport, 217 -- 11 Vadose Zone, Part I: Characterization and Flow Processes, 288 -- 12 Vadose Zone, Part II: Transport, 312 -- 13 Quantifying and Accounting for Uncertainty, 321 --References, 357 -- Index, 385.
Sommario/riassunto	Stochastic hydrogeology is the study of subsurface, geological variability on flow and transport processes, supplementing existing theories which lack a rational framework for modeling the impact of the processes and incorporating them into predictions.

