

Concentration Fluctuations, Dilution, and Risk Assessment: Role of Local Dispersion and Heterogeneity

V. Kapoor and P. K. Kitanidis

Introduction

Background

Making assessments of subsurface contamination and decisions for remedial measures requires the assessment of contaminant concentration levels in aquifers. Even if we restrict attention to an "ideal tracer" (i.e., no chemical transformations or concentration-dependent changes of fluid properties), the challenge of understanding the evolution of the concentration of a dissolved substance flowing in a fluid in natural porous medium remains. This poses two distinct difficulties: (1) the pore-scale geometry is complex, and therefore, incorporating it in pore-scale modeling to predict concentrations even in small (laboratory-scale) porous specimens is next to impossible; and (2) natural porous media exhibit a large range of textural variations over relatively small distances in the field; these variations must be accounted for to assess solute transport in the field. Overcoming these difficulties to develop descriptions of concentrations continues to be an active area of research in hydrology, civil engineering, environmental engineering, chemical engineering, petroleum engineering, agricultural engineering, and related disciplines.

The difficulty caused by complex pore-scale geometry was alleviated by the discovery of constitutive laws (Darcy's law and the Fickian local dispersive flux model) and the associated empirical constitutive parameters (permeability, porosity, and local dispersion coefficients) that are inferred in laboratory experiments with small porous specimens (Bear 1972). Indeed, observations of concentration breakthrough curves in the laboratory have yielded estimates of local dispersion coefficients, and these dispersion coefficients can be employed in the advection dispersion equation to effectively predict concentrations under a variety of initial and boundary condi-

Stochastic Methods In Subsurface Contaminant Hydrology

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Stochastic Methods in Subsurface Contaminant Hydrology Rao S. Govindaraju, 2002-01-01 **Stochastic Subsurface Hydrology** L. W. Gelhar, 1993 This volume describes new stochastic subsurface hydrology techniques and results and examines the basic stochastic methods used to treat flow and contaminant transport in naturally heterogeneous permeable earth materials

Advances in Data-based Approaches for Hydrologic Modeling and Forecasting Bellie Sivakumar, Ronny Berndtsson, 2010 This book comprehensively accounts the advances in data based approaches for hydrologic modeling and forecasting Eight major and most popular approaches are selected with a chapter for each stochastic methods parameter estimation techniques scaling and fractal methods remote sensing artificial neural networks evolutionary computing wavelets and nonlinear dynamics and chaos methods These approaches are chosen to address a wide range of hydrologic system characteristics processes and the associated problems Each of these eight approaches includes a comprehensive review of the fundamental concepts their applications in hydrology and a discussion on potential future directions

Unsaturated-zone Modeling R.A. Feddes, G.H. de Rooij, J.C. van Dam, 2004-10-11 Mankind has manipulated the quantity and quality of soil water for millennia Food production was massively increased through fertilization irrigation and drainage But malpractice also caused degradation of immense areas of once fertile land rendering it totally unproductive for many generations In populated areas the pollutant load ever more often exceeds the soil's capacity for buffering and retention and large volumes of potable groundwater have been polluted or are threatened to be polluted in the foreseeable future In the past decades the role of soil water in climate patterns has been recognized but not yet fully understood The soil science community responded to this diversity of issues by developing numerical models to simulate the behavior of water and solutes in soils These models helped improve our understanding of unsaturated zone processes and develop sustainable land management practices Aimed at professional soil scientists soil water modelers irrigation engineers etc this book discusses our progress in soil water modeling Top scientists present case studies overviews and analyses of strengths weaknesses opportunities and threats related to soil water modeling The contributions cover a wide range of spatial scales and discuss fundamental aspects of unsaturated zone modeling as well as issues related to the application of models to real world problems

Working with Dynamic Crop Models Daniel Wallach, David Makowski, James W. Jones, Francois Brun, 2006-05-10 Mathematical models are being used more and more widely to study complex dynamic systems global weather ecological systems hydrological systems nuclear reactors etc including the specific subject of this book crop soil systems The models are important aids in understanding predicting and managing these systems Such models are complex and imperfect One fundamental research direction is to seek a better understanding of how these systems function and to propose mathematical expressions embodying that understanding However this is not sufficient It is also essential to have tools often mathematical and statistical methods to aid in developing improving and using the models built from those

equations The book is specifically concerned with the application of methods to crop models but much of the material is also applicable to dynamic system models in other fields The goal of this book is to fill that gap State of the art methods explained simply and illustrated specifically for crop models Parameter estimation applying statistical methods to the complex case of crop models including Bayesian methods Includes model evaluation understanding and estimating prediction error Offers a unique data assimilation by using the Kalman filter and beyond

Introductory Laplace Transform with Applications Dalpatadu, Singh, 2015-07-17 One of the first applications of the modern Laplace transform was by Bateman in 1910 who used it to transform Rutherfords equations in his work on radioactive decay The modeling of complex engineering and physical problems by linear differential equations has made the Laplace transform an indispensable mathematical tool for engineers and scientists The method of Laplace transform for solving linear differential equations is very popular in the disciplines of electrical engineering environmental engineering hydrology and petroleum engineering This book presents some applications of Laplace transforms in these disciplines Algorithms for the numerical inversion of Laplace transform are given and a computer program in R for the Stehfest algorithm is included

A Radial Lagrangian Streamtube-ensemble Modeling Approach and Its Applications to Reactive Transport Experiments in the Subsurface Jie Shang, 2003

Climate Change and Global Food Security Rattan Lal, Norman Uphoff, B.A. Stewart, David O. Hansen, 2005-05-26 In order to feed their burgeoning populations developing nations will need to double cereal production by the year 2050 This increase will have to come from existing land as little potential exists for bringing new land under cultivation a daunting prospect when one realizes that increased use and significantly higher concentrations of carbon

Water Resources Engineering 98 Steven R. Abt, Jayne Young-Pezeshk, Chester C. Watson, 1998

Theory, Modeling, and Field Investigation in Hydrogeology S. P. Neuman, Dongxiao Zhang, C. L. Winter, 2000-01-01 The refereed and edited proceedings of the symposium Schlomo P Neuman Recent Advances After 30 Years of Exceptional Contributions to Well Hydraulics Numerical Modeling and Field Investigations which was held in Tucson Arizona in October 1998 Among the topics are four decades of inverse problems in hydrogeology a connected network paradigm for the alluvial aquifer system the influence of multi scale structure in non ergodic solute transport in heterogeneous porous media the Gaussian analysis of one dimensional unsaturated flow in randomly heterogeneous soils and the type curve interpretation of transient single hole pneumatic injection tests in unsaturated fractured tuffs at the Apache Leap Research Site Annotation copyrighted by Book News Inc Portland OR

Bayesian Approaches for Subsurface Characterization Using Hydrogeological and Geophysical Data Jinsong Chen, 2001

American Book Publishing Record, 2002

Subsurface Hydrology David W. Hyndman, 2007-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 171 Groundwater is a critical resource and the Principal source of drinking water for over 1.5 billion people In 2001 the National Research Council cited as a grand challenge our need to understand the processes that control water movement in the subsurface This volume

faces that challenge in terms of data integration between complex multi scale hydrologic processes and their links to other physical chemical and biological processes at multiple scales Subsurface Hydrology Data Integration for Properties and Processes presents the current state of the science in four aspects Approaches to hydrologic data integration Data integration for characterization of hydrologic properties Data integration for understanding hydrologic processes Meta analysis of current interpretations Scientists and researchers in the field the laboratory and the classroom will find this work an important resource in advancing our understanding of subsurface water movement

Sparse Grids and Applications - Munich 2018 Hans-Joachim Bungartz, Jochen Garcke, Dirk Pflüger, 2022-03-14 Sparse grids are a popular tool for the numerical treatment of high dimensional problems Where classical numerical discretization schemes fail in more than three or four dimensions sparse grids in their different flavors are frequently the method of choice This volume of LNCSE presents selected papers from the proceedings of the fifth workshop on sparse grids and applications and demonstrates once again the importance of this numerical discretization scheme The articles present recent advances in the numerical analysis of sparse grids in connection with a range of applications including uncertainty quantification plasma physics simulations and computational chemistry to name but a few

Approaches to Large Scale Unsaturated Flow in Heterogeneous, Stratified, and Fractured Geologic Media Rachid Ababou, 1991

Book Review Index, 2003 Every 3rd issue is a quarterly cumulation

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IEEE Southeastcon '93 IEEE, Region 3 Staff, 1993-03

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Subsurface Flow and Transport Gedeon Dagan, S. P. Neuman, 1997 A valuable reference work for research workers and professionals in hydrology environmental issues petroleum and geological engineering and applied mathematics

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