

THEORY AND APPLICATIONS OF TRANSPORT IN POROUS MEDIA

Modelling and Applications of Transport Phenomena in Porous Media

**Jacob Bear and
J-M. Buchlin(eds.)**

Modelling And Applications Of Transport Phenomena In Porous Media

I. Pop, Derek B Ingham



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Modelling and Applications of Transport Phenomena in Porous Media Jacob Bear, J.M. Buchlin, 1991-11-30 Transport phenomena in porous media are encountered in various disciplines e.g. civil engineering, chemical engineering, reservoir engineering, agricultural engineering and soil science. In these disciplines problems are encountered in which various extensive quantities e.g. mass and heat are transported through a porous material domain. Often the void space of the porous material contains two or three fluid phases and the various extensive quantities are transported simultaneously through the multiphase system. In all these disciplines decisions related to a system's development and its operation have to be made. To do so a tool is needed that will provide a forecast of the system's response to the implementation of proposed decisions. This response is expressed in the form of spatial and temporal distributions of the state variables that describe the system's behavior. Examples of such state variables are pressure, stress, strain, density, velocity, solute concentration, temperature etc. for each phase in the system. The tool that enables the required predictions is the model. A model may be defined as a simplified version of the real porous medium system and the transport phenomena that occur in it. Because the model is a simplified version of the real system, no unique model exists for a given porous medium system. Different sets of simplifying assumptions, each suitable for a particular task, will result in different models.

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Modeling Transport Phenomena in Porous Media with Applications Malay K. Das, Partha P. Mukherjee, K. Muralidhar, 2017-11-21 This book is an ensemble of six major chapters: an introduction and a closure on modeling transport phenomena in porous media with applications. Two of the six chapters explain the underlying theories, whereas the rest focus on new applications. Porous media transport is essentially a multi-scale process. Accordingly, the

related theory described in the second and third chapters covers both continuum and meso scale phenomena Examining the continuum formulation imparts rigor to the empirical porous media models while the mesoscopic model focuses on the physical processes within the pores Porous media models are discussed in the context of a few important engineering applications These include biomedical problems gas hydrate reservoirs regenerators and fuel cells The discussion reveals the strengths and weaknesses of existing models as well as future research directions

Introduction to Modeling of Transport Phenomena in Porous Media Jacob Bear,Y. Bachmat,2012-12-06 The main purpose of this book is to provide the theoretical background to engineers and scientists engaged in modeling transport phenomena in porous media in connection with various engineering projects and to serve as a text for senior and graduate courses on transport phenomena in porous media Such courses are taught in various disciplines e g civil engineering chemical engineering reservoir engineering agricultural engineering and soil science In these disciplines problems are encountered in which various extensive quantities e g mass and heat are transported through a porous material domain Often the porous material contains several fluid phases and the various extensive quantities are transported simultaneously throughout the multiphase system In all these disciplines management decisions related to a system s development and its operation have to be made To do so the manager or the planner needs a tool that will enable him to forecast the response of the system to the implementation of proposed management schemes This forecast takes the form of spatial and temporal distributions of variables that describe the future state of the considered system Pressure stress strain density velocity solute concentration temperature etc for each phase in the system and sometime for a component of a phase may serve as examples of state variables The tool that enables the required predictions is the model A model may be defined as a simplified version of the real porous medium system that approximately simulates the excitation response relations of the latter

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favourable reception Transport Phenomena in Porous Media II maintains the original concept including a wide and diverse range of topics whilst providing an up to date summary of recent research in the field by its leading practitioners

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Modeling and Applications of Transport Phenomena in Porous Media Von Karman institute for fluid dynamics, Transport Phenomena in Porous Media III Derek B Ingham,Ioan Pop,2005-07-29 Fluid and flow problems in porous media have attracted the attention of industrialists engineers and scientists from varying disciplines such as chemical environmental and mechanical engineering geothermal physics and food science There has been a increasing interest in heat and fluid flows through porous media making this book a timely and appropriate resource Each chapter is systematically detailed to be easily grasped by a research worker with basic knowledge of fluid mechanics heat transfer and computational and experimental methods At the same time the readers will be informed of the most recent research literature in the field giving it dual usage as both a post grad text book and professional reference Written by the recent directors of the NATO Advanced Study Institute session on Emerging Technologies and Techniques in Porous Media June 2003 this book is a timely and essential reference for scientists and engineers within a variety of fields Modeling and Applications of Transport Phenomena in Porous Media ,1988 *Modeling Phenomena of Flow and Transport in Porous Media* Jacob Bear,2018-01-25 This book presents and discusses the construction of mathematical models that describe phenomena of flow and transport in porous media as encountered in civil and environmental engineering petroleum and agricultural engineering as well as chemical and geothermal engineering The phenomena of transport of extensive quantities like mass of fluid phases mass of chemical species dissolved in fluid phases momentum and energy of the solid matrix and of fluid phases occupying the void space of porous medium domains are encountered in all these disciplines The book which can also serve as a text for courses on modeling in these disciplines starts from first principles and focuses on the construction of well posed mathematical models that describe all these transport phenomena **Modeling and Applications of Transport Phenomena in Porous Media** ,1988 *Kinematic Wave Modeling in Water Resources* Vijay P. Singh,1997-10-28 Kinematic wave KW modeling methods are gaining wide acceptance as fast and accurate methods for handling a wide range of water modeling problems This book provides a through reference to the application of KW methods to such problems as the spatial representation of watersheds overland flow routing and channel flow routing **Handbook of Porous Media** Kambiz Vafai,2015-06-23 Handbook of Porous Media Third Edition offers a comprehensive overview of the latest theories on flow transport and heat exchange processes in porous media It also details sophisticated porous media models which can be used to improve the accuracy of modeling in a variety of practical applications Featuring contributions from leading experts i

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