

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

**Malay K. Das, Partha P. Mukherjee, K.
Muralidhar**



Modelling And Applications Of Transport Phenomena In Porous Media:

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

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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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.

Introduction to Modeling of Transport Phenomena in Porous Media Jacob Bear, Y. Bachmat, 1990-03-31. 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.

Modeling and Applications of Transport Phenomena in Porous Media Von Karman Institute for Fluid Dynamics, **Modeling and Applications of Transport Phenomena in Porous Media**, 1988. *Modeling and Applications of Transport Phenomena in Porous Media* J. Bear, Von Karman Institute for Fluid Dynamics, 1988. **Modeling and Applications of Transport Phenomena in Porous Media. Lecture Series ; 1987**, 1988. *Transport Phenomena in Porous Media II* I. Pop, Derek B. Ingham, 2002-06-20. Transport phenomena in porous media continues to be a field which attracts intensive research activity. This is primarily due to the fact that it plays an important and practical role in a large variety of diverse scientific applications. *Transport Phenomena in Porous Media II* covers a wide range of the engineering and technological applications including both stable and unstable flows, heat and mass transfer, porosity, and turbulence. *Transport Phenomena in Porous Media II* is the second volume in a series emphasizing the fundamentals and applications of research in porous media. It contains 16 interrelated chapters of controversial and in some cases conflicting research over a wide range of topics. The first volume of this series, published in 1998, met with a very favourable reception. *Transport Phenomena in Porous Media II* maintains the original

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