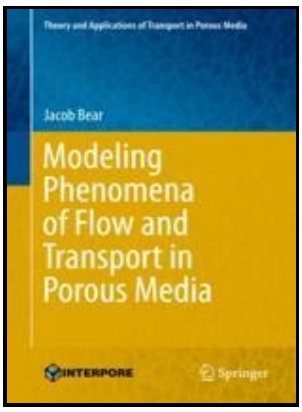
Introduction to modeling of transport phenomena in porous media

Kluwer Academic Publishers - Introduction to Modeling of Transport Phenomena in Porous Media



Description: -
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Thai students -- Massachusetts -- Marion -- Biography.
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Kritdikọn Sātamān, 1969-1988.
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v. 4
Theory and applications of transport in porous media ;Introduction to modeling of transport phenomena in porous media
Notes: Includes bibliographical references and index.
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Tags: #Transport #Phenomena #in #Porous #Media #III

Transport Phenomena in Porous Media III

Sorption reactions include ion exchange and surface complexation with both equilibrium and kinetic formulations and colloid-facilitated transport. Within this chapter instantaneous local transport equations are reviewed for clear flow before time- and volume-averaging procedures are applied to them.

Transport in Porous Medium

Such courses are taught in various disciplines, e.

Introduction to Modeling of Transport Phenomena in Porous Media by Jacob Bear

It is also true that the effect of transport processes on the transport property fields, even within somewhat complex porous media, can be investigated at the continuum level when the medium, internally, presents a periodic structure. The numerical results were obtained for a pore-level model of a lattice of square rods. It is of interest to note that the relationship of proportionality between the critical volume fraction and the aspect ratio is also consistent with those estimated by the mean-field theory and the excluded volume model.

Introduction to Modeling of Transport Phenomena in Porous Media (Theory and 9780792305576

Druck auf Anfrage Neuware - 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. Nield, in , 2002 8. Keywords Jacob Bear is a Professor Emeritus at the Dept.

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Below the sketches we observe the increase in length- and time-scales for observing the phenomenon taking place within each domain.

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