Introduction to modeling of transport phenomena in porous media

Kluwer Academic Publishers - Transport Phenomena in Porous Media III

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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.
This edition was published in 1991

Filesize: 37.210 MB

Tags: #Transport #in #Porous #Medium

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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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The tool that enables the required predictions is the model. 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.

Transport Phenomena in Porous Media III

ECKEChem uses an operator split, non-iterative solution scheme to minimize the Jacobian matrix size and computation time.

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. His teaching, research, and consulting cover the areas of groundwater hydrology and hydraulics, management of water resources, subsurface contamination and remediation, and the general theory of transport phenomena in porous media. Using the known balance equations from mechanics, such as the Navier—Stokes equations or the heat balance equation is the most straightforward approach to modeling transport in porous media.

Transport in Porous Medium

This forecast takes the form of spatial and temporal distributions of variables that describe the future state of the considered system. This is an extremely important phenomenon widely observable in our daily life. In these disciplines, problems are encountered in which various extensive

quantities, e.

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The fitted transport parameters from the study of Liu et al.

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