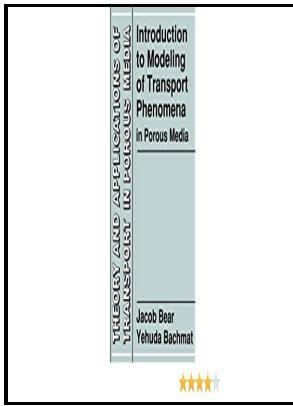


Introduction to modeling of transport phenomena in porous media

Kluwer Academic Publishers - Modeling Phenomena of Flow and Transport in Porous Media

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 Morris, William, 1834-1896.
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 Porous materials -- Permeability -- Mathematical models. Introduction to modeling of transport phenomena in porous media

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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: 34.410 MB

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Introduction to Modeling of Transport Phenomena in Porous Media

Systematic and comprehensive, this book satisfies the highest standards of excellence and will undoubtedly become a standard reference book in the field of porous media. See the seller's listing for full details.

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In a broader sense, the study of turbulence in porous media embraces fluid and thermal sciences, materials, chemical, geothermal, bio, petroleum and combustion engineering. Interactions between mineral assemblages and fluids can occur under local equilibrium or kinetic rates. The only continuum modeling alternative in this case is to consider the entire domain, and solve the transport equations at the continuum level.

Transport Phenomena in Porous Media III

Since 2008, he has been conducting research on CO₂ sequestration in deep geological formations within the framework of the European Community. Instead it is recognized as a comprehensive platform to adequately explore a far-ranging scope of phenomena.

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The American Geophysical Union AGU awarded him The Horton medal for 2010, for his contributions to hydrology. The interactions between different constituents take place along their interface, which would play the role of a boundary to each constituent.

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

Formally, the applicability of a porous—continuum model becomes limited by the length- and time-scales relation shown in Figure 3. The statistical k-ε model for clear domains, used to model macroscopic turbulence effects, serves also as the basis for heat transfer modeling.

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The tool that enables the required predictions is the model.

Transport in Porous Medium

Although porous media cover different scales, modeling should be initiated at the first scale of interest, typically the pore-scale, as a basis for successively upscaling to larger scales. This equation involves only volume-averaged quantities eliminating as hoped! Muthsam, Monatshefte für Mathematik, Vol.

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