



LBM Modeling of Transport Phenomena through Porous Materials: Concepts, Method and Implementation

Arman Hasanpour

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Over the years, the numerical modeling of transport phenomena has been obtained a great portion in the solution of scientific and industrial problems. One of the new numerical techniques is Lattice Boltzmann Method. This method has a lot of advantages like easy implementation, flexible boundary condition, and fast convergence. Also, it is appropriate for simulation of complex geometries and domains like porous media, multiphase flow and etc. The present book provides an investigation of the transport phenomenon in porous media within a computational geometry using LBM. This book should help shed some light on the industrial and educational investigations of porous media and should be particularly useful to professionals in LBM modeling, or anyone else who may be considering employing of numerical techniques for porous and non-porous mediums.

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