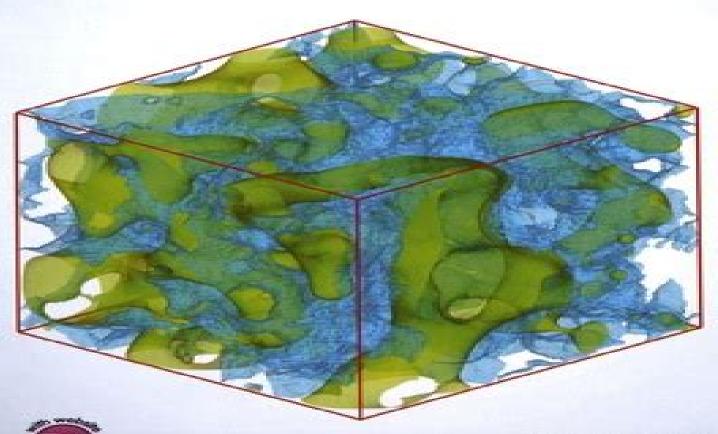
Haibo Huang, Michael C. Sukop and Xi-Yun Lu

Multiphase Lattice Boltzmann Methods

Theory and Application



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<u>Multiphase Lattice Boltzmann Methods Theory And</u> <u>Application</u>

Haibo Huang, Michael Sukop, Xiyun Lu

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Multiphase Lattice Boltzmann Methods Haibo Huang, Michael Sukop, Xiyun Lu, 2015-08-03 Theory and Application of Multiphase Lattice Boltzmann Methods presents a comprehensive review of all popular multiphase Lattice Boltzmann Methods developed thus far and is aimed at researchers and practitioners within relevant Earth Science disciplines as well as Petroleum Chemical Mechanical and Geological Engineering Clearly structured throughout this book will be an invaluable reference on the current state of all popular multiphase Lattice Boltzmann Methods LBMs The advantages and disadvantages of each model are presented in an accessible manner to enable the reader to choose the model most suitable for the problems they are interested in The book is targeted at graduate students and researchers who plan to investigate multiphase flows using LBMs Throughout the text most of the popular multiphase LBMs are analyzed both theoretically and through numerical simulation. The authors present many of the mathematical derivations of the models in greater detail than is currently found in the existing literature The approach to understanding and classifying the various models is principally based on simulation compared against analytical and observational results and discovery of undesirable terms in the derived macroscopic equations and sometimes their correction A repository of FORTRAN codes for multiphase LBM models is also Multiphase Lattice Boltzmann Methods Haibo Huang, Michael Sukop, Xiyun Lu, 2015-06-08 Theory and provided Application of Multiphase Lattice Boltzmann Methods presents a comprehensive review of all popular multiphase Lattice Boltzmann Methods developed thus far and is aimed at researchers and practitioners within relevant Earth Science disciplines as well as Petroleum Chemical Mechanical and Geological Engineering Clearly structured throughout this book will be an invaluable reference on the current state of all popular multiphase Lattice Boltzmann Methods LBMs The advantages and disadvantages of each model are presented in an accessible manner to enable the reader to choose the model most suitable for the problems they are interested in The book is targeted at graduate students and researchers who plan to investigate multiphase flows using LBMs Throughout the text most of the popular multiphase LBMs are analyzed both theoretically and through numerical simulation The authors present many of the mathematical derivations of the models in greater detail than is currently found in the existing literature The approach to understanding and classifying the various models is principally based on simulation compared against analytical and observational results and discovery of undesirable terms in the derived macroscopic equations and sometimes their correction A repository of FORTRAN codes for multiphase Simplified And Highly Stable Lattice Boltzmann Method: Theory And Applications Zhen LBM models is also provided Chen, Chang Shu, 2020-09-15 This unique professional volume is about the recent advances in the lattice Boltzmann method LBM It introduces a new methodology namely the simplified and highly stable lattice Boltzmann method SHSLBM for constructing numerical schemes within the lattice Boltzmann framework Through rigorous mathematical derivations and abundant numerical validations the SHSLBM is found to outperform the conventional LBM in terms of memory cost boundary

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biology mathematics and computer science As a result mathematical and computational techniques capable of providing a quantitative account of the way that such complex states of flowing matter behave in space and time are becoming increasingly important This book provides a unique description of a major technique the Lattice Boltzmann method to accomplish this task The Lattice Boltzmann method has gained a prominent role as an efficient computational tool for the numerical simulation of a wide variety of complex states of flowing matter across a broad range of scales from fully developed turbulence to multiphase micro flows all the way down to nano biofluidics and lately even quantum relativistic sub nuclear fluids After providing a self contained introduction to the kinetic theory of fluids and a thorough account of its transcription to the lattice framework this text provides a survey of the major developments which have led to the impressive growth of the Lattice Boltzmann across most walks of fluid dynamics and its interfaces with allied disciplines Included are recent developments of Lattice Boltzmann methods for non ideal fluids micro and nanofluidic flows with suspended bodies of assorted nature and extensions to strong non equilibrium flows beyond the realm of continuum fluid mechanics In the final part it presents the extension of the Lattice Boltzmann method to quantum and relativistic matter in an attempt to match the major surge of interest spurred by recent developments in the area of strongly interacting holographic fluids such as electron flows in graphene Handbook Of Porous Materials: Synthesis, Properties, Modeling And Key Applications (In 4 Volumes) ,2020-10-20 This four volume handbook gives a state of the art overview of porous materials from synthesis and characterization and simulation all the way to manufacturing and industrial applications. The editors coming from academia and industry are known for their didactic skills as well as their technical expertise Coordinating the efforts of 37 expert authors in 14 chapters they construct the story of porous carbons ceramics zeolites and polymers from varied viewpoints surface and colloidal science materials science chemical engineering and energy engineering Volumes 1 and 2 cover the fundamentals of preparation characterisation and simulation of porous materials Working from the fundamentals all the way to the practicalities of industrial production processes the subjects include hierarchical materials in situ and operando characterisation using NMR X Ray scattering and tomography state of the art molecular simulations of adsorption and diffusion in crystalline nanoporous materials as well as the emerging areas of bio artificing and drug delivery Volume 3 focuses on porous materials in industrial separation applications including adsorption separation membrane separation and osmotic distillation Finally and highly relevant to tomorrow s energy challenges Volume 4 explains the energy engineering aspects of applying porous materials in supercapacitors fuel cells batteries electrolysers and sub surface energy applications The text contains many high quality colourful illustrations and examples as well as thousands of up to date references to peer reviewed articles reports and websites for further reading This comprehensive and well written handbook is a must have reference for universities research groups and companies working with porous materials Related Link s Carbon Capture, Utilization and Sequestration Ramesh K. Agarwal, 2018-09-12 This book is divided in two sections Several

chapters in the first section provide a state of the art review of various carbon sinks for CO2 sequestration such as soil and oceans Other chapters discuss the carbon sequestration achieved by storage in kerogen nanopores CO2 miscible flooding and generation of energy efficient solvents for postcombustion CO2 capture The chapters in the second section focus on monitoring and tracking of CO2 migration in various types of storage sites as well as important physical parameters relevant to sequestration Both researchers and students should find the material useful in their work Lattice Boltzmann Modeling of Complex Flows for Engineering Applications Andrea Montessori, Giacomo Falcucci, 2018-02-20 Nature continuously presents a huge number of complex and multi scale phenomena which in many cases involve the presence of one or more fluids flowing merging and evolving around us Since its appearance on the surface of Earth Mankind has tried to exploit and tame fluids for their purposes probably starting with Hero's machinery to open the doors of the Temple of Serapis in Alexandria to arrive to modern propulsion systems and actuators Today we know that fluid mechanics lies at the basis of countless scientific and technical applications from the smallest physical scales nanofluidics bacterial motility and diffusive flows in porous media to the largest from energy production in power plants to oceanography and meteorology It is essential to deepen the understanding of fluid behaviour across scales for the progress of Mankind and for a more sustainable and efficient future Since the very first years of the Third Millennium the Lattice Boltzmann Method LBM has seen an exponential growth of applications especially in the fields connected with the simulation of complex and soft matter flows LBM in fact has shown a remarkable versatility in different fields of applications from nanoactive materials free surface flows and multiphase and reactive flows to the simulation of the processes inside engines and fluid machinery LBM is based on an optimized formulation of Boltzmann's Kinetic Equation which allows for the simulation of fluid particles or rather quasi particles from a mesoscopic point of view thus allowing the inclusion of more fundamental physical interactions in respect to the standard schemes adopted with Navier Stokes solvers based on the continuum assumption In this book the authors present the most recent advances of the application of the LBM to complex flow phenomena of scientific and technical interest with particular focus on the multi scale modeling of heterogeneous catalysis within nano porous media and multiphase multicomponent flows

Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks Behzad Ghanbarian, Feng Liang, Hui-Hai Liu, 2023-04-13 Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks Understanding and predicting fluid flow in hydrocarbon shale and other non conventional reservoir rocks Oil and natural gas reservoirs found in shale and other tight and ultra tight porous rocks have become increasingly important sources of energy in both North America and East Asia As a result extensive research in recent decades has focused on the mechanisms of fluid transfer within these reservoirs which have complex pore networks at multiple scales Continued research into these important energy sources requires detailed knowledge of the emerging theoretical and computational developments in this field Following a multidisciplinary approach that combines engineering geosciences and rock physics Physics of Fluid Flow and Transport in Unconventional

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