

Crouzeix-Raviart MsFEM with Bubble Functions for Diffusion and Advection-Diffusion in Perforated Media

preview

Pierre Degond, Alexei Lozinski, Bagus Putra Muljadi and Jacek Narski

Communications in Computational Physics / Volume 17 / Issue 04 / 四月 2015, pp 887 - 907

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DOI: <http://dx.doi.org/10.4208/cicp.2014.m299> (About DOI), Published online: 30 四月 2015

Abstract

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(30 KB)

A Localized Mass-Conserving Lattice Boltzmann Approach for Non-Newtonian Fluid Flows

preview

Liang Wang, Jianchun Mi, Xuhui Meng and Zhaoli Guo

Communications in Computational Physics / Volume 17 / Issue 04 / 四月 2015, pp 908 - 924

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DOI: <http://dx.doi.org/10.4208/cicp.2014.m303> (About DOI), Published online: 30 四月 2015

Abstract

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Simulation of Acoustic Behavior of Bubbly Liquids with Hybrid Lattice Boltzmann and Homogeneous Equilibrium Models

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Xiao-Peng Chen and Ming Liu

Communications in Computational Physics / Volume 17 / Issue 04 / 四月 2015, pp 925 - 936

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Effects of Reynolds and Prandtl Numbers on Heat Transfer Around a Circular Cylinder by the Simplified Thermal Lattice Boltzmann Model

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Qing Chen, Xiaobing Zhang and Junfeng Zhang

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Multi-GPU Based Lattice Boltzmann Method for Hemodynamic Simulation in Patient-Specific Cerebral Aneurysm

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Changsheng Huang, Baochang Shi, Zhaoli Guo and Zhenhua Chai

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Efficient Stabilization of Advection Terms Involved in Separated Representations of Boltzmann and Fokker-Planck Equations

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F. Chinesta, E. Abisset-Chavanne, A. Ammar and E. Cueto

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A Finite-Difference Lattice Boltzmann Approach for Gas Microflows

preview

G. P. Ghiroldi and L. Gibelli

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Pore-Scale Study of the Non-Linear Mixing of Fluids with Viscous Fingering in Anisotropic Porous Media

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Gaojie Liu and Zhaoli Guo

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Lattice Boltzmann Modeling of Thermal Conduction in Composites with Thermal Contact Resistance

preview

Chiyu Xie, Jinku Wang, Dong Wang, Ning Pan and Moran Wang

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Lattice Boltzmann Simulation of Droplet Formation in Non-Newtonian Fluids

preview

Y. Shi and G. H. Tang

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Computational Modeling of Membrane Viscosity of Red Blood Cells

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John Gounley and Yan Peng

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Lattice Boltzmann Schemes with Relative Velocities

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François Dubois, Tony Fevrier and Benjamin Graille

Communications in Computational Physics / Volume 17 / Issue 04 / 四月 2015, pp 1088 - 1112

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