

Advances in the kinetics of heat and mass transfer in near-continuous complex flows

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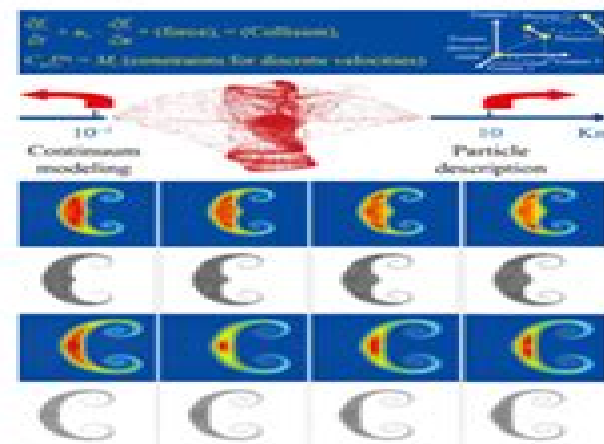
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ABSTRACT

The study of macro continuous flow has a long history. Simultaneously, the exploration of heat and mass transfer in small systems with a particle number of several hundred or less has gained significant interest in the fields of statistical physics and nonlinear science. However, due to absence of suitable methods, the understanding of mesoscale behavior situated between the aforementioned two scenarios, which challenges the physical function of traditional continuous fluid theory and exceeds the simulation capability of microscopic molecular dynamics method, remains considerably deficient. This greatly restricts the evaluation of effects of mesoscale behavior and impedes the development of corresponding regulation techniques. To access the mesoscale behaviors, there are two ways: from large to small and from small to large. Given the necessity to interface with the prevailing macroscopic continuous modeling currently used in the mechanical engineering community, our study of mesoscale behavior begins from the side closer to the macroscopic continuum, that is from large to small. Focusing on some fundamental challenges encountered in modeling and analysis of near-continuous flows, we review the research progress of discrete Boltzmann method (DBM). The ideas and schemes of DBM in coarse-grained modeling and complex physical field analysis are introduced. The relationships, particularly the differences, between DBM and traditional fluid modeling as well as other kinetic methods are discussed. After verification and validation of the method, some applied researches including the development of various physical functions associated with discrete and non-equilibrium effects are illustrated. Future directions of DBM related studies are indicated.

Keywords near-continuous flow, non-equilibrium, kinetics, discrete Boltzmann method, complex physical field analysis



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Recent Advances in Computational and Experimental Mechanics, Vol II D. K. Maiti,P. Jana,C. S. Mistry,R. Ghoshal,M. S. Afzal,P. K. Patra,D. Maity,2022-02-26 This book Vol II presents select proceedings of the first Online International Conference on Recent Advances in Computational and Experimental Mechanics ICRACEM 2020 and focuses on theoretical computational and experimental aspects of solid and fluid mechanics Various topics covered are computational modelling of extreme events mechanical modelling of robots mechanics and design of cellular materials mechanics of soft materials mechanics of thin film and multi layer structures meshfree and particle based formulations in continuum mechanics multi scale computations in solid mechanics and materials multiscale mechanics of brittle and ductile materials topology and shape optimization techniques acoustics including aero acoustics and wave propagation aerodynamics dynamics and control in micro nano engineering dynamic instability and buckling flow induced noise and vibration inverse problems in mechanics and system identification measurement and analysis techniques in nonlinear dynamic systems multibody dynamical systems and applications nonlinear dynamics and control stochastic mechanics structural dynamics and earthquake engineering structural health monitoring and damage assessment turbomachinery noise vibrations of continuous systems characterization of advanced materials damage identification and non destructive evaluation experimental fire mechanics and damage experimental fluid mechanics experimental solid mechanics measurement in extreme environments modal testing and dynamics experimental hydraulics mechanism of scour under steady and unsteady flows vibration measurement and control bio inspired materials constitutive modelling of materials fracture mechanics mechanics of adhesion tribology and wear mechanics of composite materials mechanics of multifunctional materials multiscale modelling of materials phase transformations in materials plasticity and creep in materials fluid mechanics computational fluid dynamics fluid structure interaction free surface moving boundary and pipe flow hydrodynamics multiphase flows propulsion internal flow physics turbulence modelling wave mechanics flow through porous media shock boundary layer interactions sediment transport wave structure interaction reduced order models turbo machinery experimental hydraulics mechanism of

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