



Ammonia Synthesis Catalysts: Innovation and Practice

Huazhang Liu

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Lattice Boltzmann method (LBM) is a relatively new simulation technique for the modeling of complex fluid systems and has attracted interest from researchers in computational physics. Unlike the traditional CFD methods, which solve the conservation equations of macroscopic properties (i.e., mass, momentum, and energy) numerically, LBM models the fluid consisting of fictive particles, and such particles perform consecutive propagation and collision processes over a discrete lattice mesh.

This book will cover the fundamental and practical application of LBM. The first part of the book consists of three chapters starting from the theory of LBM, basic models, initial and boundary conditions, theoretical analysis, to improved models. The second part of the book consists of six chapters, address applications of LBM in various aspects of computational fluid dynamic engineering, covering areas, such as thermo-hydrodynamics, compressible flows, multicomponent/multiphase flows, microscale flows, flows in porous media, turbulent flows, and suspensions.

With these coverage LBM, the book intended to promote its applications, instead of the traditional computational fluid dynamic method.

Readership: Graduate students, researchers and academics in the field of mechanical engineering, fluid mechanics, MEMS/NEMS, computational physics and applied mathematics.

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