



A LATTICE BOLTZMANN METHOD FOR SIMULATIONS OF LIQUID-VAPOR THERMAL FLOWS

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ABSTRACT

We present a novel lattice Boltzmann method that has a capability of simulating thermodynamic multiphase flows. This approach is fully thermodynamically consistent at the macroscopic level. Using this new method, a liquid-vapor boiling process, including liquid-vapor formation and coalescence together with a full coupling of temperature, is simulated for the first time.
