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Simulation of three-component fluid flows using the multiphase lattice Boltzmann flux solver

Y. Shi, G.H. Tang, Y. Wang

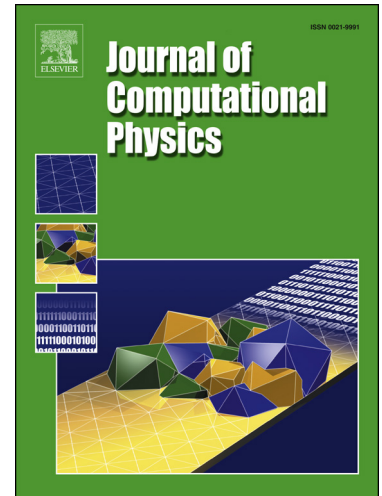
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Highlights

- We extend the multiphase lattice Boltzmann flux solver to three-component fluid flows.
- The three-component Cahn–Hilliard model is used to capture fluid–fluid interface.
- The present model is validated with simulation of partial spreading of a liquid lens.
- Simulations including bubble rising and droplet collision-coalescence are presented.

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