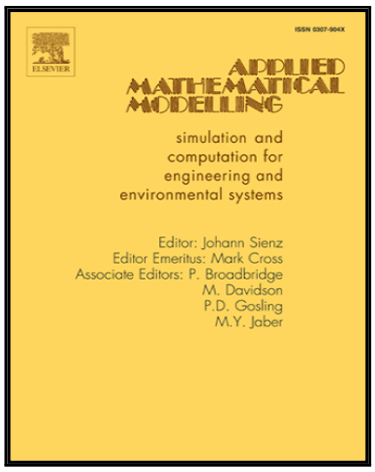

A Large Scale Interface Multifluid Model for Simulating Multiphase Flows

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Highlights

- LSI model for simulation of multi-scale multiphase flows within the mul-tifluid model is presented.
- To model the large scale interface interface, a drag law is used which can equalize the fluid velocities.
- For turbulent flows a wall like damping treatment is done close to the large scale interface.
- The LSI model is validated on four test cases; each case is selected to highlight the different capabilities of the LSI model.