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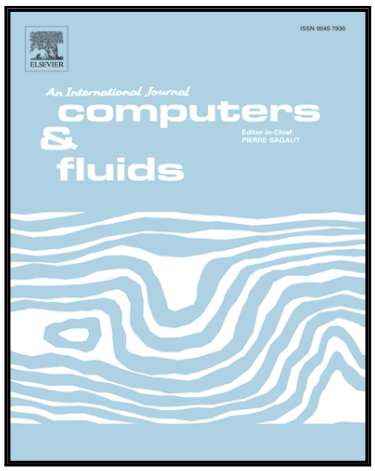

A sharp-interface treatment technique for two-phase flows in meshless methods

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Highlights

- A new interface treatment technique for multi-phase meshless methods.
- Interface conditions applied on the interface points in two-phase flows involving interface tension and high viscosity.
- Sharp pressure discontinuity at the interface is well predicted with depressed parasitic current.
- Capable in dealing with high viscosity
- Well performed in simulations of square-droplet deformation, capillary wave, bubble rising and Rayleigh-Taylor instability.

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