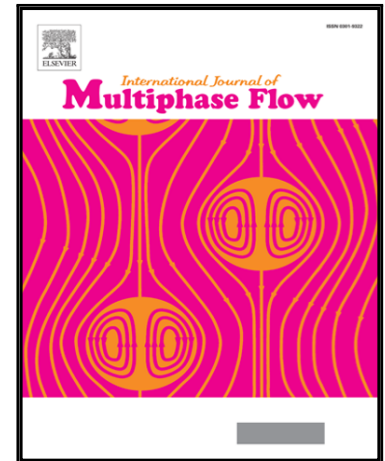


## Accepted Manuscript

On a relation between the volume of fluid, level-set and phase field interface models

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**Highlights**

- A relation between the sharp and diffusive interface models is established.
- A statistical model of the non-flat interface is introduced.
- The new Lagrangian scheme for advection of the level-set functions is derived.
- The second-order convergence rate of the advected interface shape and curvature are obtained using the second order accurate discretization.

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