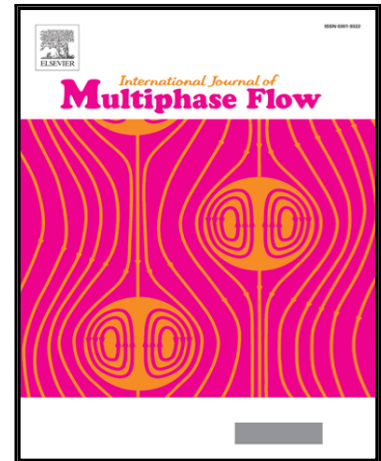


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Numerical investigation of the impact of computational resolution on shedding cavity structures

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Highlights

- Unsteady LES simulation of cavitation is performed for Delft Twist11 case with focus on the impacts of the spatial mesh resolution on the shedding cavity structures.
- Interactions of the instantaneous and averaged cavity and vorticity are evaluated
- Contribution of different terms of vorticity transport equations on the formation of horse-shoe cavity-vortex structures are investigated
- Uncertainty analysis of the numerical results is conducted on 10 different grid resolutions

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