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Realizability improvements to a hybrid mixture-bubble model for simulation of cavitating flows

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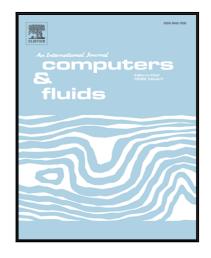
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Highlights

- The hybrid model is capable of resolving various cavities in different length scales
- The new improvements avoid spurious pressure pulses and spurious vapour generation
- Consideration of bubble contribution in the Eulerian equations and mixture properties



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