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Coupled THINC and level set method: A conservative interface capturing scheme with high-order surface representations

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## Highlights

- Volume of fluid method with high-order representation for moving interface.
- Rigorous conservation of mass/volume of the transported VOF field.
- Sub-grid resolution for fine interfacial structures that are smaller than mesh size.
- Easy-to-code and straightforward algorithm for 3D unstructured-grid.
- Verified superior solution quality in comparison with classical VOF methods.

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