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Reservoir Simulation of Fractured Media in Compressible Single-Phase flow in 2D, 2.5 D and 3D Unstructured Gridding

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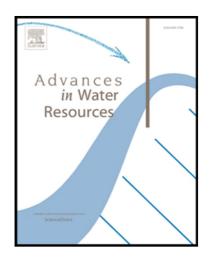
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Highlights

- Incorporation of fracture cross-flow equilibrium (FCFE) in compositional flow using unstructured gridding in 2D and 3D in the context of discrete fracture approach.
- Simulation time in fractured media is within the same order of that of unfractured media.
- CAD interface is developed as part of the model, for the first time, to efficiently generate complex geometries in 2D and 3D.
- The model includes highly heterogeneous and anisotropic media.
- Demonstration the model has low mesh dependency in complex fractured media.



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