

## Accepted Manuscript

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

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PII: S0309-1708(17)30317-2  
DOI: <https://doi.org/10.1016/j.advwatres.2018.08.005>  
Reference: ADWR 3178



To appear in: *Advances in Water Resources*

Received date: 30 March 2017  
Revised date: 12 August 2018  
Accepted date: 12 August 2018

Please cite this article as: Ali Zidane , Abbas Firoozabadi , Reservoir Simulation of Fractured Media in Compressible Single-Phase flow in 2D, 2.5 D and 3D Unstructured Gridding, *Advances in Water Resources* (2018), doi: <https://doi.org/10.1016/j.advwatres.2018.08.005>

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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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