

## Discrete Fracture Model For Coupled Flow And Geomechanics

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A coupled THM model was developed with a discrete fracture model (DFM). The reservoir was divided by the DFM into the rock matrix and discrete fractures. For each fracture, ?exible Delaunay triangulation was used to simulate the complex fracture network [27,28]. Finally, the developed 3D

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Discrete Fracture Model (EDFM) will be adopted to model the thermal circulation test. A coupled model is essential because geomechanics often plays an important role in modifying fracture permeability (McDermott and Kolditz, 2006; Wang et al., 2016; Yu et al., 2019). Some common approaches to coupling fluid/heat flow with geomechanics include ...

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by guest modeling theory and methods are not suitable for such reservoir. It starts from the concept of discrete fracture and fracture-vug networks model, and then develops the corresponding mathematical models and numerical

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Keywords: dynamic fracture model, fracture mechanics, fracture propagation, leakoff ABSTRACT We present the framework for a numerical model that is capable of calculating the coupled interaction of mass transfer between fractures and surrounding matrix rock, fracture deformation, and fracture propagation.

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An explicitly coupled hydro-geomechanical model for simulating hydraulic fracturing in complex discrete fracture networks P. Fu, S. M. Johnson, C. R. Carrigan December 7, 2011 International Journal for Numerical and Analytical Methods in Geomechanics

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Fractures are treated as lower dimensional surfaces embedded in a background grid. Interactions are captured using the embedded discrete fracture model (EDFM) and the ...

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@article{osti\_1670121, title = {Sequentially coupled flow and geomechanical simulation with a discrete fracture model for analyzing fracturing fluid recovery and distribution in fractured ultra-low permeability gas reservoirs}, author = {Liu, Yongzan and Liu, Lijun and Leung, Juliana Y. and Moridis, George J.}, abstractNote = {More accurate characterization and prediction of the in-situ ...

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coupled fluid flow and deformation in discrete fractures, but with rock blocks being assumed impermeable (Kim et al., 1999; Jing et al., 2001). Later, models based on enriched FEM were developed ...

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M. Moradi, A. Shamloo, and A. D. Dezfuli, “A sequential implicit discrete fracture model for three-dimensional coupled flow-geomechanics problems in naturally fractured porous media,” *Journal of Petroleum Science and Engineering*, vol. 150, pp. 312–322, 2017. View at: [Publisher Site](#) | [Google Scholar](#)

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A continuum model for coupled stress and fluid flow in discrete fracture networks Quan Gan . Derek Elsworth Received: 23 September 2015/Accepted: 9 December 2015/Published online: 5 January 2016 The Author(s) 2016. This article is published with open access at [Springerlink.com](#) Abstract We present a model coupling stress and

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General approaches in naturally fractured reservoir simulation involve use of unstructured grids or a structured grid coupled with locally unstructured grids and ...

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