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discretized using a  
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element  
approximation.

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## Discrete Fracture Model For Coupled Flow And Geomechanics

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extensively. To

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represent the fracture deformation explicitly, the discrete fracture model has been more widely used recently in coupled fluid flow and geomechanics problems. A fracture is defined as two surfaces in contact in the discrete fracture model presented by Garipov et al, 18 in which a mechanical



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model for the fractures is derived to describe the changes in the stress and the displacement fields through the surfaces representing the fractures.

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couples an embedded-  
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model (EDFM) with  
multiple interacting

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Discrete (MINC) into  
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simulates the fracture  
network characterized  
by...

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Abstract We present a  
model coupling stress  
and

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A continuum model  
for coupled stress and  
fluid flow in ...

In this work we consider a discrete fracture–matrix (DFM) model, where the fractures are modeled as lower dimensional interfaces embedded in the rock matrix. We assume Darcy flow both in the matrix and

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the fracture, and we only consider the case where the permeability in the fractures are orders of magnitude larger than in the matrix.

A simple embedded discrete fracture–matrix model for a ...

In this paper, a numerical model is

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Developed for coupled analysis of deforming fractured porous media with multiscale fractures. In this model, the macro-fractures are modeled explicitly by the embedded discrete fracture model, and the supporting effects of fluid and fillings in these fractures are represented explicitly



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in the geomechanics model. On the other hand, matrix and micro-fractures are modeled by a multi-porosity model, which aims to accurately describe the transient matrix ...

An efficient hydro-mechanical model for coupled multi ...

A “discrete fracture

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network” (DFN) refers to a computational model that explicitly represents the geometrical properties of each individual fracture (e.g. orientation, size, position, shape and aperture), and the topological relationships between individual fractures and fracture sets.

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The use of discrete  
fracture networks for  
modelling ...

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The Discrete Fracture  
Model (DFM) has  
been widely used to  
model the flow and  
transport in natural  
geological porous  
formations. Here, we  
extend the DFM

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approach to model  
deformation. The flow  
equations are

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The sub-model is

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Coupled to the discrete fracture sub-model through the fracture surface. The domain size of the sub-model is such that the dominant, time-variable, dynamic transport processes during the expected years of reservoir exploitation are captured within this geometry.

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A New T-H-M-C  
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for Discrete-Fracture  
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In this study, we developed a new numerical manifold method model for analysis of fully coupled hydro-mechanical processes in porous rock with discrete fractures. In

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this model the porous rock and the fractures are both deformable and fluid conductive with large contrast of mechanical and hydraulic properties.

A numerical manifold method model for analyzing fully ...

The discrete fracture networks (DFNs) is quantitatively



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A model based on the  
code CrunchClay is

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presented for a fracture-clay matrix system that takes electrostatic effects on transport into account. The electrostatic effects on transport include those associated with the development of a diffusion potential as captured by the Nernst-Planck equation, and the

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formation of a diffuse  
layer bordering  
negatively charged  
clay particles within  
which ...

Geomechanics  
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The discrete fractures  
were idealised as  
lower-dimensional  
geometric objects with  
the discrete fracture  
elements located on  
the edges of

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Discrete elements sharing the same nodes. The coupling between the two flow systems was achieved by using the principle of superposition.

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Transient transfer

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shape factor between matrix and fracture should be considered. Considering the transient transfer, a simulation workflow is developed using Discrete-Fracture and Continuum Models, i.e., embedded-discrete-fracture model (EDFM) and dual porosity (DP) model. We consider

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the SRV region and  
USRV region  
respectively.

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