Discrete Fracture Model For Coupled Flow And Geomechanics

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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 approach to model deformation. The flow equations are discretized using a finite-volume method, and the poroelasticity equations are discretized using a Galerkin finite-element approximation.

Discrete fracture model for coupled flow and geomechanics ...

Discrete Fracture Model For Coupled Flow And Geomechanics Author: crafty.roundhouse-designs.com-2020-10-14T00:00:00+00:01 Subject: Discrete Fracture Model For Coupled Flow And Geomechanics Keywords: discrete, fracture, model, for, coupled, flow, and, geomechanics Created Date: 10/14/2020 2:02:37 PM

Discrete Fracture Model For Coupled Flow And Geomechanics

An efficient discrete-fracture model is used to explicitly model the fractured system. Flexible unstructured gridding is employed to model arbitrarily-oriented fractures. The interrelations among pore volume, permeability and geomechanical conditions are considered dynamically using two-way coupled

flow and geomechanics computations.

Sequentially coupled flow and geomechanical simulation ...

extensively. To 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 dis-crete fracture model presented by Garipov et al,18 in which a mechanical model for the fractures is derived to describe the changes in the stress and the displacement fields through the surfaces representing the fractures.

A coupled compressible flow and geomechanics model for ...

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The first hybrid model couples an embedded-discrete-fracture model (EDFM) with multiple interacting continua (MINC) into EDFM/MINC, which simulates the fracture network characterized by...

(PDF) Hybrid Coupled Discrete Fracture-Matrix and ...

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

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 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 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 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 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.

The use of discrete fracture networks for modelling ...

Discrete Fracture Model For Coupled 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 approach to model deformation. The flow equations are

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

The sub-model is 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.

A New T-H-M-C Model Development for Discrete-Fracture EGS ...

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 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 constructed according to the fracture density and

stimulated reservoir area (SRA). This model is used to analyze the temporal/spatial evolution of the gas pressure and the net desorption rate.

Quantitative study in shale gas behaviors using a coupled ...

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A model based on the code CrunchClay is 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 formation of a diffuse layer bordering negatively charged clay particles within which ...

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The discrete fractures were idealised as lower-dimensional geometric objects with the discrete fracture elements located on the edges of continuum 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 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 the SRV region and USRV region respectively.