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For Coupled

Flow And

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1.7 Modeling and
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Deficiency of fixed-
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From Waveform to Rock

Type How to Create a

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Flow through Jointed

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The Discrete Fracture

Model (DFM) has been

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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.

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An efficient discrete-fracture model is used to explicitly model the fractured system. Flexible unstructured gridding is

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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

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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 discrete fracture model presented by Garipov et al,¹⁸ in

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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...

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(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

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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

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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

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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 macrofractures are modeled explicitly by the embedded discrete fracture model, and the supporting effects of fluid

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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

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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

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sets. Fracture Model

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The use of discrete
fracture networks for

modelling... Geomechanics

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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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DOE PAGES Journal
Article: A continuum
model for coupled stress
and fluid flow in discrete
fracture networks. A
continuum model for
coupled stress and fluid

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flow in discrete fracture
networks. Full Record;
References (26) Other
Related Research;
Authors: Gan, Quan;
Elsworth, Derek

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

The sub-model is
coupled to the discrete
fracture sub-model
through the fracture

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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

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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.

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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

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pressure and the net
desorption rate.

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shale gas behaviors using
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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 formation of a diffuse layer bordering negatively charged clay

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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

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Fracture Model
principle of
superposition.

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Modelling of gas
transport in coal ...

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

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Models, i.e., embedded-discrete-fracture model (EDFM) and dual porosity (DP) model.

We consider the SRV region and USRV region respectively.

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