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For Coupled

Flow And

Geomechanics

Coupled Flow

And

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1.7 Modeling and simulation of dynamical systems (AE3B35MSD):

Deficiency of fixed-causality models ~~What~~

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Facies Classification

Scenarios From

Waveform to Rock

Type ~~How to Create a~~

~~Hydraulic Fracture~~

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~~Introduction dfnWorks~~

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Introductory Webinar

Introduction to

DIANA10 Discrete

Fracture Model For

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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

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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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Keywords: discrete,
fracture, model, for,
coupled, flow, and,
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Discrete Fracture
Model For Coupled
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An efficient discrete-
fracture model is used

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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

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geomechanics
computations.

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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

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

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representing the model
fractures.

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A coupled
compressible flow and
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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

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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

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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

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in the matrix. Model

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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-

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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

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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

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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 ...

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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

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Research; Authors:

Gan, Quan; Elsworth,
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The sub-model is coupled to the discrete fracture sub-model through the fracture surface. The domain size of the sub-model is such

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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
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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

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hydraulic properties.

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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

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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

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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

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principle of
superposition.

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EThOS: Modelling of
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Transient transfer
shape factor between
matrix and fracture
should be considered.
Considering the
transient transfer, a
simulation workflow is

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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.

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