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· Presents the fundamental concepts of the discrete models for fractured rocks, including constitutive models of rock fractures and rock masses for stress, deformation and fluid flow · Provides a comprehensive presentation on discrete element methods, including distinct elements, discontinuous deformation analysis, discrete fracture networks, particle mechanics and Cosserat representation of granular media · Features constitutive models of rock fractures and fracture system ...

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Such methods are called discrete element methods (DEM). A key advantage of a discrete element is its ability to change the form of interaction with neighboring elements (linked, contact, unlinked)...

Developments in Geotechnical Engineering | Fundamentals of ...
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Introduces DEM from the fundamental concepts (theoretical mechanics and solidstate physics), with 2D and 3D simulation methods for polygonal particles; Provides the fundamentals of coding discrete element method (DEM) requiring little advance knowledge of granular matter or numerical simulation

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Fundamentals of Discrete Element Methods for Rock Engineering: Theory and Applications Lanru Jing and Ove Stephansson (Eds.) Fundamentals of Discrete Element Methods for Rock Engineering Theory and Applications, Volume 85, By Lanru Jing, Ove Stephansson 2007

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Fundamentals of Discrete Element Methods for Rock ...
The discrete element method is a family of numerical methods for computing the motion of a large number of particles like molecules or grains of sand. From: Journal of Unconventional Oil and Gas Resources, 2015

Fundamentals of discrete element method for rock ...
This book is about the fundamentals and some application cases of the discrete element methods (DEM). The main reason for the general difficulties in modeling rock masses, by whatever numerical method, is that rock is a natural geological material and so its physical and engineering properties cannot be established or defined through a manufacturing process [...]

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Community. The Conference is especially designed for engineers, applied mathematicians and scientists from academia, industry and national laboratories who are interested in the latest advances in discrete element technology.

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The combined finite-discrete element method - a natural extension of both discrete and finite element methods - allows researchers to model problems involving the deformability of either one solid body, a large number of bodies, or a solid body which fragments (e.g. in rock blasting applications a more or less intact rock mass is transformed into a pile of solid rock fragments of different sizes, which interact with each other).

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select article 9 - Implicit Discrete Element Method For Block Systems - Discontinuous Deformation Analysis (DDA)

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Typical integration methods used in a discrete element method are: the Verlet algorithm, velocity Verlet, symplectic integrators, the leapfrog method.

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