

Discrete Continuum Coupling Method To Simulate Highly Dynamic Multi Scale



Discrete Continuum Coupling Method To

Discrete-Continuum Coupling Method to Simulate Highly Dynamic Multi-Scale Problems. When homogenization fails to give the right behavior law, a solution is to simulate the material at a mesoscale using the discrete element model (DEM) in order to directly simulate a set of discrete properties that are responsible for the macroscopic behavior. Originally, the discrete element model was developed for granular material.

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Read "Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems Simulation of Laser-induced Damage in Silica Glass, Volume 2" by Mohamed Jebahi available from Rakuten Kobo. Sign up today and get \$5 off your first purchase. Complex behavior models (plasticity, crack, visco-el

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The authors demonstrate the coupling method to simulate a highly nonlinear dynamical problem: the laser shock processing of silica glass. English Mohamed Jebahi is a post-doctoral researcher at the Institute of Mechanics and Engineering of Bordeaux, France, and Laval University, Quebec, Canada.

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porous media serving as the framework for micro-macro transitions. Then, the discrete-continuum coupling model in the finite deformation range is presented in Section3. The details of the multiscale semi-implicit method are provided in Section4, with an emphasis placed on how the material properties homogenized from DEM are employed in the

A semi-implicit discrete-continuum coupling method for ...

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Discrete-Continuum Coupling Method to Model Highly Dynamic Multi-Scale Problems 1 Chapter 1. State of the Art: Concurrent Discrete-continuum Coupling 3 1.1. Introduction 3 1.2. Coupling challenges 4 1.2.1. Dissimilar variables due to different mechanical bases 4 1.2.2. Wave reflections due to different analysis scales 4 1.3.

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Then, the discrete-continuum coupling model in the finite deformation range is presented in Section 3. The details of the multiscale semi-implicit method are provided in Section 4 , with an emphasis placed on how the material properties homogenized from DEM are employed in the semi-implicit FEM-mixed-DEM solution scheme.

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Computer Methods in Applied Mechanics and Engineering manuscript No. (will be inserted by the editor) 1 A semi-implicit discrete-continuum coupling method for porous media 2 based on the effective stress principle at finite strain 3 Kun Wang WaiChing Sun 4 5 Received: February 13, 2016/ Accepted: date 6 Abstract A finite strain multiscale hydro-mechanical model is established via an extended ...

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Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems: Simulation of Laser-induced Damage in Silica Glass, Volume 2 (Discrete ... of Continuous Materials Behavior Set) - Kindle edition by Mohamed Jebahi, Frédéric Dau, Jean-Luc Charles, Ivan Iordanoff. Download it once and read it on your Kindle device, PC, phones or tablets.

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discrete region characterized by the analytical solution of one-dimensional random walkers to a continuum re-gion described by the stochastic diffusion equation solved using finite differences. Here, we describe a new discrete/continuum coupling method for non-steady flow in which a region described by the diffusion equation is

A Coupled Discrete/Continuum Model for Multiscale Diffusion

Numerical Methods Coupling Discrete Particles to a Continuum A collection of particles "talking" to their surroundings: Physical systems comprising a dispersed collection of particles in continuous media (fluid/solid) involve two-way exchange of mass/momentum/energy.

Coupling-Methods - Debanjan Mukherjee

The large-scale fractures are explicitly represented in discrete fracture model, while the proposed method uses a multi-continuum model to model the finer scale systems (matrix, fracture and vug), and then to couple it to the discrete fracture network.

Multiscale mass transfer coupling of triple-continuum and ...

Get this from a library! Discrete-continuum coupling method to simulate highly dynamic multi-scale problems : simulation of laser-induced damage in silica glass. [Mohamed Jebahi; Frédéric Dau; Jean-Luc Charles; Ivan Iordanoff] -- Complex behavior models (plasticity, cracks, visco elasticity) face some theoretical difficulties for the determination of the behavior law at the continuous scale.

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The objective of the mini-symposium is to provide a platform of exchange and to make a state-of-the-art of recent advances. The topics cover discrete numerical methods, discrete multiscale modeling, cracking and fracturing, hydromechanical coupling, discrete/continuum approaches coupling and engineering applications.

Mini-symposia - DEM8 - mercurylab.co.uk

The coupling between two dissimilar numerical methods presents a major challenge, especially in case of discrete-continuum coupling. The Arlequin approach provides a flexible framework and presents several advantages in comparison to alternative approaches. Many studies have analyzed, in statics, the ingredients of this approach in 1D configurations under several particular conditions.

3D coupling approach between discrete and continuum models ...

Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems ... the second in the Discrete Element Model and Simulation of Continuous Materials Behavior set of

books, shows how to choose the adequate coupling parameters to avoid spurious wave reflection and to allow the passage of all the dynamic information both from the ...

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