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Discrete Continuum Coupling Method To

Discrete-Continuum Coupling Method to Simulate Highly Dynamic Multi-Scale Problems: Simulation of Laser-Induced Damage in Silica Glass, Volume 2

Discrete-Continuum Coupling Method to Simulate Highly ...

The great scientific interest in computational mechanics has yielded numerous continuum methods (CMs) that can be used to model mechanical problems at the engineering scale. This chapter focuses on the choice of the appropriate CM to be coupled with discrete element method (DEM) for highly dynamic studies.

Choice of the Continuum Method to be Coupled with the ...

Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems. Embed

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Discrete-continuum Coupling Method to Simulate Highly ...

A method is developed to model continuum (finite element) and discrete (kinetic Monte Carlo) diffusion occurring simultaneously in connected regions of space. The two regions are coupled

A Coupled Discrete/Continuum Model for Multiscale Diffusion

Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems by Mohamed Jebahi, Frédéric Dau, Ivan Iordanoff, Jean-Luc Charles Thanks for Sharing!

Discrete-continuum Coupling Method to Simulate Highly ...

hierarchical discrete-continuum coupling model can be established by using grain-scale simulations to provide Gauss point stress update for finite element simulations in a fully implicit scheme. Nevertheless, the extension of this idea

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

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.

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

To investigate the compaction effect and environmental impact effect of dynamic compaction (DC), a 3D continuous-discrete coupling method was used to simulate the hammer-soil interaction process for the first time.

3D continuum-discrete coupling modeling of soil-hammer ...

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.

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

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.

Discrete-continuum Coupling Method to Simulate Highly ...

The great scientific interest in computational mechanics has yielded numerous continuum methods (CMs) that can be used to model mechanical problems at the engineering scale.

Choice of the Continuum Method to be Coupled with the ...

The present paper aims to meet this need. First, a new discrete-continuum coupling model combining the strengths of the existing shot peening models was developed. To avoid expensive computation times, only major shot peening features are included in this model.

Robust methodology to simulate real shot peening process ...

The continuous-discrete coupling scheme can adopt an edge-to-edge coupling method with the walls of the discrete model coinciding with the zone faces of the continuum model or a bridging domain coupling method with a transition band of a certain width between the discrete model and continuum model.

Coupled continuum-discrete modeling of rammed floating ...

We propose a technique to simulate granular materials that exploits the dual strengths of discrete and continuum treatments. Discrete element simulations provide unmatched levels of detail and ...

Hybrid Grains: Adaptive Coupling of Discrete and Continuum Simulations of Granular Media

1 Introduction. Nowadays, methods of continuum mechanics are mainly used for a theoretical description of deformation of various materials and media. This approach uses highly developed mathematical apparatus of continuous functions, and capabilities of this approach are extremely wide and well known.

Coupling of Discrete and Continuum Approaches in Modeling ...

Discrete-Continuum Coupling Method to Model Highly Dynamic Multi-Scale Problems.

Discrete-continuum coupling method to simulate highly ...

In our hybrid approach, an oracle dynamically partitions the domain into continuum regions where safe, and discrete regions where necessary. The domains overlap along transition zones, where a Lagrangian dynamics mass-splitting coupling principle enforces agreement between the two simulation states.

Hybrid Grains: Adaptive Coupling of Discrete and Continuum ...

functions in a discretized continuum when used in coupled dynamic atomistic-to-continuum simulations. The focus is on assessing the ability of the discrete continuum model to capture and accurately represent transient effects, namely a travelling longitudinal wave, through both the mixed atomistic-continuum interface and

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