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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 Mohamed Jebahi , Frédéric Dau , Jean-Luc Charles , Ivan Iordanoff

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1. State of the Art: Concurrent Discrete-continuum Coupling. 2. Choice of the Continuum Method to be Coupled with the Discrete Element Method. 3. Development of Discrete-Continuum Coupling Method Between DEM and CNEM. 4. Some Fundamental Concepts in Laser Shock Processing. 5. Modeling of the Silica Glass Mechanical Behavior. 6.

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The main features of this method are recalled to better understand the development of the coupling formulation. Discrete-Continuum Coupling Method to Simulate Highly Dynamic Multi-Scale Problems: Simulation of Laser-Induced Damage in Silica Glass, Volume 2

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

As a result, this discrete-continuum coupling model does not explicitly model the pore-scale solid-fluid interaction. Instead, we rely on the hypothesis that effective stress principle is valid for the specific boundary value problems we considered. In particular, we make the following assumptions:

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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 for partially or fully saturated porous media has not been explored, to the best knowledge of the authors.

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

COUPLING FINITE AND DISCRETE ELEMENT METHODS USING AN OPEN SOURCE AND A COMMERCIAL SOFTWARE Ákos Orosz, Kornél Tamás, János P. Rádics, Péter T. Zwierczyk Department of Machine and Product Design Budapest University of Technology and Economics Műegyetem rkp. 3., H-1111, Budapest, Hungary E-mail: orosz.akos@gt3.bme.hu KEYWORDS

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<https://doi.org/10.1108/02644400410519794> When a simulated object is composed of both discrete and continuum mass systems, the continuous-discrete coupling (CDC) method will be the best method to simulate the real model from its physical essence, so it has become one of the hot spots of the current granular material research. Zheng et al. 29 29.

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