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Previous work for dry granular materials, such as , , , has demonstrated that a 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 ...

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

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

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a discrete continuum coupling approach has been developed to simulate the laser induced damage in silica glass first a classification of the different numerical methods has been performed to select the ones

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cannot replace the discrete one. Then, we apply a Discrete/Continuum coupling method to these cases. Finally, numerical results are presented in order to validate and prove the efficiency of the proposed coupling method. 2. Discrete and Continuum formulations 2.1. Discrete approach A beam resting on springs and on which we apply a load F is ...

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This paper introduces a three-dimensional discrete element – finite difference coupling method, in which the discrete – continuum interactions are modeled in local coordinate systems where the force and displacement compatibilities between the coupled subdomains are considered. The method is validated using a model dynamic compaction test on sand.

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