

Introduction To Practical Peridynamics Computational Solid Mechanics Without Stress And Strain Frontier Research In Computation And Mechanics Of Materials

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Parting with the classical continuum concepts of stress and strain in the computational simulation of solids, this book proposes a peridynamic model that applies the model directly to particle lattices. The model is directly solvable on a computer. Introduction to Practical Peridynamics is both a graduate-level textbook and a treatise. The text provides the necessary foundations to understand and apply the state-based peridynamic lattice model, as well as a guide for the practical use of the ...

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Introduction To Practical Peridynamics: Computational Solid Mechanics Without Stress And Strain (Frontier Research In Computation And Mechanics Of Materials And Biology Book 1) Kindle Edition. by Walter Herbert Gerstle (Author) Format: Kindle Edition. 5.0 out of 5 stars 1 rating. Flip to back Flip to front.

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Writer of the Introduction to Practical Peridynamics: Computational Solid Mechanics Without Stress and Strain (Frontier Research in Computation and Mechanics of Materials) By Walter Herbert Gerstle...

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Abstract: The purpose of this chapter is to describe how one can implement the state-based peridynamic lattice model (SPLM) either on a single processor (a laptop or desktop computer) or on many processors running in parallel using the MPI (Message Passing Interface) protocol. The molecular dynamics research community has led the way in developing methods for simulating particle dynamics on massively parallel computers....

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A ductile fracture of an Al-Mg-Si alloy. A fracture is a mathematical singularity to which the classical equations of continuum mechanics cannot be applied directly - Peridynamics offers a numerical method. Peridynamics is a formulation of continuum mechanics that is oriented toward deformations with discontinuities, especially fractures.

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