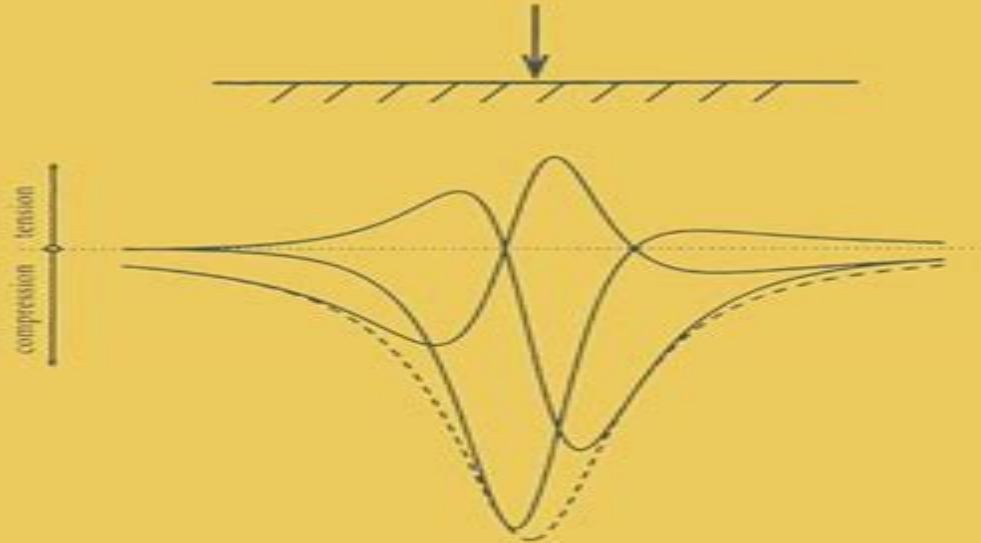


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Mauro Ferrari Vladimir T. Granik
Ali Imam Joseph C. Nadeau (Eds.)

Advances in Doublet Mechanics



Springer

Advances In Doublet Mechanics Lecture Notes In Physics Monographs

Lock Yue Chew, Elbert Ee Min Chia



Advances In Doublet Mechanics Lecture Notes In Physics Monographs:

Advances in Doublet Mechanics Mauro Ferrari, Vladimir T. Granik, Ali Imam, Joseph C. Nadeau, 2008-09-11 The recently proposed fully multi scale theory of doublet mechanics offers unprecedented opportunities to reconcile the discrete and continuum representations of solids while maintaining a simple analytical format and full compatibility with lattice dynamics and continuum mechanics In this monograph a self contained account of the state of the art in doublet mechanics is presented Novel results in the elastodynamics of microstructured media are reported including the identification of a new class of dispersive surface waves and the presentation of methods for the experimental determination of the essential microstructural parameters The relationships between doublet mechanics lattice dynamics and continuum theories are examined leading to the identification of the subject areas in which the use of doublet mechanics is most advantageous These areas include the analysis of domains as diverse as micro electro mechanical systems MEMS granular and particulate media nanotubes and peptide arrays

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on notions where vectors are coordinate free presents the importance of reference frames inertial and non inertial to mechanics problems the role of Galilean Relativity on invariance and covariance of physical quantities a framework to perform calculations free from the constraint of a fixed axis in rotational dynamics and others Moreover it provides clear links between concepts in mechanics and other branches of physics such as thermodynamics and electrodynamics so that students can possess a more complete view of what they learn within the confines of physics

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