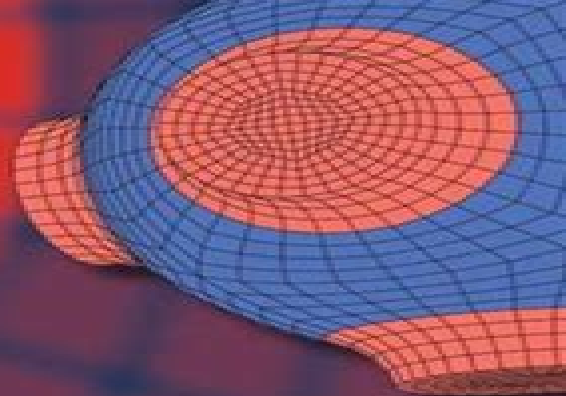


Advanced Structured Materials

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Wave Dynamics of Generalized Continua



Springer

Wave Dynamics Of Generalized Continua Advanced Structured Materials

Vladimir I. Erofeev, Igor S. Pavlov



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Wave Dynamics of Generalized Continua Alexander G. Bagdoev, Vladimir I. Erofeev, Ashot V. Shekoyan, 2015-09-25
This monograph is devoted to problems of propagation and stability of linear and nonlinear waves in continuous media with complex structure. It considers the different media such as solid with cavities, preliminarily deformed, disperse medium, solid with porosity filled by the electrically conductive and non-conductive liquid, magnetoelastic piezo semiconductors, crystals with dislocations, composites with inclusions, an electrically conductive asymmetrical liquid, a mixture of gas with a drop liquid. The book also considers the propagation of a laser beam through a two-level medium. The presented results are based on methods of evolution and modulation equations that were developed by the authors. The book is intended for scientific and technical researchers, students and postgraduate students specializing in mechanics of continuous media, physical acoustics and physics of the solid state.

Sixty Shades of Generalized Continua Holm Altenbach, Arkadi Berezovski, Francesco dell'Isola, Alexey Porubov, 2023-02-13
In this book, well-known scientists discuss modern aspects of generalized continua in order to better understand modern materials and advanced structures. They possess complicated internal structure and it requires the development of new approaches to model such structures and new effects caused by it. This book combines fundamental contributions in honor of Victor Eremeyev and his 60th birthday.

Nonlinear Wave Dynamics of Materials and Structures Holm Altenbach, Victor A. Eremeyev, Igor S. Pavlov, Alexey V. Porubov, 2020-04-22
This book marks the 60th birthday of Prof. Vladimir Erofeev, a well-known specialist in the field of wave processes in solids, fluids, and structures. Featuring a collection of papers related to Prof. Erofeev's contributions in the field, it presents articles on the current problems concerning the theory of nonlinear wave processes in generalized continua and structures. It also discusses a number of applications as well as various discrete and continuous dynamic models of structures and media and problems of nonlinear acoustic diagnostics.

Dynamics, Strength of Materials and Durability in Multiscale Mechanics Francesco dell'Isola, Leonid Igumnov, 2020-11-01
This book reviews the mathematical modeling and experimental study of systems involving two or more different length scales. The effects of phenomena occurring at the lower length scales on the behavior at higher scales are of intrinsic scientific interest but can also be very effectively used to determine the behavior at higher length scales or at the macro level. Efforts to exploit this micro and macro coupling are naturally being pursued with regard to every aspect of mechanical phenomena. This book focuses on the changes imposed on the dynamics, strength of materials, and durability of mechanical systems by related multiscale phenomena. In particular, it addresses: 1) the impacts of effective dissipation due to kinetic energy trapped at lower scales; 2) wave propagation in generalized continua; 3) nonlinear phenomena in metamaterials; 4) the formalization of more general models to describe the exotic behavior of meta-materials; 5) the design and study of microstructures aimed at increasing the toughness and durability of novel materials.

Dynamics of Discrete and Continuum Structures and Media Holm Altenbach, Victor A. Eremeyev, 2025-07-19
This volume is dedicated to the

sixtieth birthday of Prof Alexey Porubov and contains a selection of scientific papers prepared by papers by his friends and colleagues from different countries It is devoted to actual research in dynamics considering discrete and continuum models of continuum and structures It includes microstructures modeling the behavior of materials and offers new theoretical approaches in dynamics with applications There has been rapid development in the field of continuum mechanics in recent years This has led to new theoretical concepts e g better inclusion of the microstructure in the models describing material behavior At the same time there are also more applications for the theories in engineering practice The book gives a new insight into the current developments Wave Dynamics, Mechanics and Physics of Microstructured Metamaterials

Mezhlum A. Sumbatyan, 2019-05-17 This book addresses theoretical and experimental methods for exploring microstructured metamaterials with a special focus on wave dynamics mechanics and related physical properties The authors use various mathematical and physical approaches to examine the mechanical properties inherent to particular types of metamaterials These include Boundary value problems in reduced strain gradient elasticity for composite fiber reinforced metamaterials Self organization of molecules in ferroelectric thin films Combined models for surface layers of nanostructures Computer simulation at the micro and nanoscale Surface effects with anisotropic properties and imperfect temperature contacts Inhomogeneous anisotropic metamaterials with uncoupled and coupled surfaces or interfaces Special interface finite elements and other numerical and analytical methods for composite structures **Dynamical Processes in Generalized Continua and Structures** Holm Altenbach, Alexander Belyaev, Victor A. Eremeyev, Anton Krivtsov, Alexey V. Porubov, 2019-03-06 This book presents a collection of chapters on the current problems of the theory of dynamical processes in generalized continua and structures and has been compiled to commemorate the 70th birthday of Prof Dmitry Indeitsev a leading specialist in the field of dynamical processes in solids fluids and structures It discusses various applications related to Prof Indeitsev s contributions including various discrete and continuous dynamic models of structures and media as well as a number of dynamical processes in generalized media **Structural Modeling of Metamaterials** Vladimir I. Erofeev, Igor S. Pavlov, 2020-11-13 This book discusses the theoretical foundations of the structural modeling method applied to metamaterials This method takes into account the parameters of the crystal lattice the size of the medium particles as well as their shape and constants of force interactions between them It provides mathematical models of metamaterials that offer insights into the qualitative influence of the local structure on the effective elastic moduli of the considered medium and into performing theoretical estimations of these quantities This book is useful for researchers working in the fields of solid mechanics physical acoustics and condensed matter physics as well as for graduate and postgraduate students studying mathematical modeling methods Deformation and Destruction of Materials and Structures Under Quasi-static and Impulse Loading Holm Altenbach, Victor A. Eremeyev, Leonid A. Igumnov, Anatoly Bragov, 2023-02-03 This book presents the theoretical and experimental foundations of quasi static deformation of elastoplastic and viscoplastic materials and structural

elements made of them Experimental studies of deformation and fracture of materials under complex loading under impulse influences are described and discussed A short introduction of theoretical and numerical methods for studying the stress strain state of elastoplastic structural elements under dynamic impulse loading and their interaction with other media is given

Advances in Mechanics of Microstructured Media and Structures Francesco dell'Isola, Victor A. Eremeyev, Alexey Porubov, 2018-02-27 This book is an homage to the pioneering works of E Aero and G Maugin in the area of analytical description of generalized continua It presents a collection of contributions on micropolar micromorphic and strain gradient media media with internal variables metamaterials beam lattices liquid crystals and others The main focus is on wave propagation stability problems homogenization and relations between discrete and continuous models

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Wave Dynamics Of Generalized Continua Advanced Structured Materials**

In a world inundated with displays and the cacophony of immediate connection, the profound power and mental resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, located within the musical pages of **Wave Dynamics Of Generalized Continua Advanced Structured Materials**, a interesting work of literary brilliance that impulses with fresh feelings, lies an memorable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus instructions viewers on a psychological odyssey, lightly exposing the latent potential and profound impact embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is main themes, dissect its interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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