

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**



## **Wave Dynamics Of Generalized Continua Advanced Structured Materials:**

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 preliminary 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 post graduate 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

*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

*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

**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 **Mechanics of Generalized Continua** Holm Altenbach, Gérard A. Maugin, Vladimir Erofeev, 2011-04-02 This collection on Mechanics of Generalized Continua from Micromechanical Basics to Engineering Applications brings together leading scientists in this field from France Russian Federation and Germany The attention in this publication is be focussed on the most recent research items i e new models application of well known models to new problems micro macro aspects computational effort possibilities to identify the constitutive equations and old problems with incorrect or non satisfying solutions based on the classical continua assumptions *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. Aifantis 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 **Higher Gradient Materials and Related Generalized Continua** Holm Altenbach, Wolfgang H. Müller, Bilen Emek Abali, 2019-11-04 This book discusses recent findings and advanced theories presented at two workshops at TU Berlin in 2017 and 2018 It underlines several advantages of generalized continuum models compared to the classical Cauchy continuum which although widely used in engineering practice has a number of limitations such as The structural size is very small The microstructure is complex The effects are localized As such the development of generalized continuum models is helpful and results in a better description of the behavior of structures or materials At the same time there are more and more experimental studies supporting the new models because the number of material parameters is higher **Contributions to Advanced Dynamics and Continuum Mechanics** Holm Altenbach, Hans Irschik, Valery P. Matveenko, 2019-05-31 The book celebrates the 65th birthday of Prof Alexander K Belyaev a well known expert in the field of Dynamics of Mechanical Systems In addition to reflecting Prof Belyaev's contributions the papers gathered here address a range of current problems in Dynamics and Continuum Mechanics All contributions were prepared by his friends and colleagues and chiefly focus on theory and applications *Mathematical Applications in Continuum and Structural Mechanics* Francesco Marmo, Salvatore Sessa, Emilio Barchiesi, Mario Spagnuolo, 2021-11-30 This book presents a range of research projects focusing on innovative numerical and modeling strategies for the nonlinear analysis of structures and metamaterials The topics covered concern various analysis approaches based on classical finite element solutions structural optimization and analytical solutions in order to present a comprehensive overview of the latest scientific advances Although based on pioneering research the contributions are

focused on immediate and direct application in practice providing valuable tools for researchers and practicing professionals alike

**Advances in Linear and Nonlinear Continuum and Structural Mechanics** Holm Altenbach, Victor Eremeyev, 2023-12-03 This book offers a current image of modern mechanics The book reflects current state of the art in the field of continuum mechanics and mechanics of structures including recent achievements in classic and non classic approaches The chapters are written by leading specialist in the field so the book collects cutting edge investigations in the field As a target we consider the society starting from beginners i e master and PhD students and also leaders in the field that is professors of universities and civil mechanical and aerospace engineers

New Achievements in Continuum Mechanics and Thermodynamics Bilen Emek Abali, Holm Altenbach, Francesco dell'Isola, Victor A. Eremeyev, Andreas Öchsner, 2019-03-13 This book presents a liber amicorum dedicated to Wolfgang H Müller and highlights recent advances in Prof Müller's major fields of research continuum mechanics generalized mechanics thermodynamics mechanochemistry and geomechanics Over 50 of Prof Müller's friends and colleagues contributed to this book which commemorates his 60th birthday and was published in recognition of his outstanding contributions

**Mechanics and Control of Solids and Structures** Vladimir A. Polyanskiy, Alexander K. Belyaev, 2022-04-22 This book presents a collection of papers prepared by the researches of the Institute for Problems in Mechanical Engineering of the Russian Academy of Sciences IPME RAS on the occasion of the 30th anniversary of the establishment of the Institute The IPME RAS is one of the leading research institutes of the Russian Academy of Sciences and consists of 18 research units laboratories The chapters cover the main research directions of the institute including nano micro meso and macro mechanics and materials with special emphasis on the problems of strength of materials and service life of structures

*Advances in Nonlinear Dynamics* Walter Lacarbonara, Balakumar Balachandran, Michael J. Leamy, Jun Ma, J. A. Tenreiro Machado, Gabor Stepan, 2022-03-01 This third of three volumes includes papers from the second series of NODYCON which was held virtually in February of 2021 The conference papers reflect a broad coverage of topics in nonlinear dynamics ranging from traditional topics from established streams of research to those from relatively unexplored and emerging venues of research These include Complex dynamics of COVID 19 modeling prediction and control Nonlinear phenomena in bio systems and eco systems Energy harvesting MEMS NEMS Multifunctional structures materials and metamaterials Nonlinear waves Chaotic systems stochasticity and uncertainty

Mechanics for Materials and Technologies Holm Altenbach, Robert V. Goldstein, Evgenii Murashkin, 2017-04-02 This book shows impressively how complex mathematical modeling of materials can be applied to technological problems Top class researchers present the theoretical approaches in modern mechanics and apply them to real world problems in solid mechanics creep plasticity fracture impact and friction They show how they can be applied to technological challenges in various fields like aerospace technology biological sciences and modern engineering materials

Progress in Continuum Mechanics Holm Altenbach, Hans Irschik, Alexey V. Porubov, 2023-10-04 This book gives an insight

into the current developments in the field of continuum mechanics Twenty five researchers present 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 In addition to new theoretical approaches in continuum mechanics and applications the book puts an emphasis on discussing multi physics problems

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