

Advanced Structured Materials

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# Wave Dynamics of Generalized Continua

 Springer

# Wave Dynamics Of Generalized Continua Advanced Structured Materials

**Holm Altenbach, Victor Eremeyev**



## **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      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 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      *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 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

*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

**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

*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

*Proceedings of the Society for Experimental Stress Analysis* Society for

Experimental Stress Analysis,1972 Vol 1 no 1 contains Proceedings of the 17th or the last Eastern Photoelasticity Conference

**General Catalog Issue** University of Washington,1969      **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      **Mechanics of Composite Materials** F. W. Wendt,Harold Liebowitz,Nicholas Perrone,1970      Journal of the Mechanical Behavior of Materials ,2005      **General Catalogue** Massachusetts Institute of Technology,1962      **General Catalog** Orta Doğu Teknik Üniversitesi (Ankara, Turkey),1993      **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      *Vibration* Arturs Kalnins,Clive L. Dym,1976      **Mathematical Reviews** ,2007      **Structural Vibration and Acoustics** Tzu Chuen Huang,1991

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