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Mechanics of Electromagnetic Solids

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Mechanics Of Electromagnetic Solids

Gérard A. Maugin



Mechanics Of Electromagnetic Solids:

Continuum Mechanics of Electromagnetic Solids G.A. Maugin, 2013-10-22 This volume is a rigorous cross disciplinary theoretical treatment of electromechanical and magnetomechanical interactions in elastic solids Using the modern style of continuum thermomechanics but without excessive formalism it starts from basic principles of mechanics and electromagnetism and goes on to unify these two fields in a common framework It treats linear and nonlinear static and dynamic problems in a variety of elastic solids such as piezoelectrics electricity conductors ferromagnets ferroelectrics ionic crystals and ceramics Chapters 1 3 are introductory describing the essential properties of electromagnetic solids the essentials of the thermomechanics of continua and the general equations that govern the electrodynamics of nonlinear continua in the nonrelativistic framework e g Maxwell s equations the fundamental balance laws of continuum mechanics basic thermodynamical inequalities for electromagnetic continua jump relations for studying the propagation of shock waves nonlinear constitutive equations for large classes of materials The remainder of the text presents in detail special cases applications solved problems and more complex schemes of electromagnetic matter Chapters 4 and 5 examine material schemes whose description relies on the above mentioned equations Chapters 6 and 7 are more advanced reporting on recent progress in the field Suitable for graduate teaching the volume will also be useful to research workers and engineers in the field of electromagnetomechanical interactions and to those interested in the basic principles mathematical developments and applications of electroelasticity and magnetoelasticity in a variety of solid materials such as crystals polycrystals compounds and alloys

Mechanics of Electromagnetic Solids J.S. Yang, Gérard A. Maugin, 2003-10-31 The mechanics of electromagnetic materials and structures has been developing rapidly with extensive applications in e g electronics industry nuclear engineering and smart materials and structures Researchers in this interdisciplinary field are with diverse background and motivation The Symposium on the Mechanics of Electromagnetic Materials and Structures of the Fourth International Conference on Nonlinear Mechanics in Shanghai China in August 13 16 2002 provided an opportunity for an intimate gathering of researchers and exchange of ideas This volume contains papers based on most of the presentations at the symposium and articles from a few invited contributors These papers reflect some of the recent activities in the mechanics of electromagnetic materials and structures The first twelve papers are in the order in which they were listed in the program of the conference These are followed by six invited papers in alphabetical order of the last names of the first authors We would like to extend our sincere thanks to Professor David Y Gao of Virginia Tech for suggesting the symposium and to the authors for their time and effort invested in preparing their manuscripts We are also grateful to Professor Daining Fang of Tsinghua University for co chairing the symposium with J S Yang Our special thanks belong to Kluwer for preparing this book for publication J S Yang G A Maugin

PIEZOELECTRIC VIBRATORY GYROSCOPES J S

Configurational Mechanics of Materials Reinhold Kienzler, Gerard A. Maugin, 2014-05-04 In several applications it is well

recognized that all materials on some scale cannot be regarded as perfect continua. They rather contain a variety of numerous defects such as micro cracks, inclusions, vacancies, voids, dislocations, etc. To characterize such defects, the notion of force acting on a defect in the material needs to be introduced, which leads to a whole engineering science of Configurational Mechanics of Materials. The lecture notes cover the numerous elements of configurational mechanics, including mathematical foundations, linear and nonlinear elasticity, and continuum mechanics, coupled fields, fracture mechanics, as well as strength of materials.

Current Developments in Solid Mechanics and Their Applications Holm Altenbach, 2025-07-07. This book is a collection of articles by eminent scientists from different countries who participated in the traditional international conference Topical Problems of Continuum Mechanics held at the Institute of Mechanics of the National Academy of Sciences of Armenia since 2007. The topics of the articles: Coupled Fields in Solids, Composites, Soil Mechanics, Fluid Mechanics, Mechanics of Nano Systems, Structural Mechanics, Biomechanics, Hydraulics, and Hydraulic Facilities, Experimental Mechanics.

Methods of Fracture Mechanics: Solid Matter Physics G.P. Cherepanov, 2013-03-09. Modern fracture mechanics considers phenomena at many levels, macro and micro; it is therefore inextricably linked to methods of theoretical and mathematical physics. This book introduces these sophisticated methods in a straightforward manner. The methods are applied to several important phenomena of solid state physics which impinge on fracture mechanics: adhesion, defect nucleation, and growth, dislocation emission, sintering, the electron beam effect, and fractal cracks. The book shows how the mathematical models for such processes may be set up and how the equations so formulated may be solved and interpreted. The many open problems which are encountered will provide topics for MSc and PhD theses in fracture mechanics and in theoretical and experimental physics. As a supplementary text, the book can be used in graduate level courses on fracture mechanics, solid matter physics, and mechanics of solids, or in a special course on the application of fracture mechanics methods in solid matter physics.

Electrodynamics of Solids and Microwave Superconductivity Shu-Ang Zhou, 1999-07-23. Die Elektrodynamik von Festkörpern ist ein interdisziplinäres angelegtes Thema zu dem elektromagnetische Phänomene, mechanische Bewegungen und Verformungen sowie Wärmeleitungen in festen Stoffen gleichermaßen beitragen. Dieses einführende und dennoch umfassende Lehrbuch zur Theorie der Elektrodynamik und Halbleitertechnik richtet sich an Physiker, ebenso wie an Elektrotechniker, Maschinenbauer und Studenten der einschlägigen Fachrichtungen.

Applied mechanics reviews, 1948.

Continuum Mechanics - Volume III José Merodio, Giuseppe Saccomandi, 2011-11-30. The main objective of continuum mechanics is to predict the response of a body that is under the action of external and/or internal influences, i.e. to capture and describe different mechanisms associated with the motion of a body that is under the action of loading. A body in continuum mechanics is considered to be matter continuously distributed in space. Hence, no attention is given to the microscopic atomic structure of real materials, although non-classical generalized theories of continuum mechanics are able to deal with the mesoscopic structure of matter, i.e. defects, cracks, dispersive lengths. Matter occupies

space in time and the response of a body in continuum mechanics is restricted to the Newtonian space time of classical mechanics in this volume Einstein's theory of relativity is not considered In the classical sense loading is considered as any action that changes the motion of the body This includes for instance a change in temperature or a force applied By introducing the concept of configurational forces a load may also be considered as a force that drives a change in the material space for example the opening of a crack Continuum mechanics refers to field descriptions of phenomena that are usually modeled by partial differential equations and from a mathematical point of view require non standard knowledge of non simple technicalities One purpose in this volume has been to present the different subjects in a self contained way for a general audience The organization of the volume is as follows Mathematically to predict the response of a body it is necessary to formulate boundary value problems governed by balance laws The theme of the volume that is an overview of the subject has been written with this idea in mind for beginners in the topic Chapter 1 is an introduction to continuum mechanics based on a one dimensional framework in which simultaneously a more detailed organization of the chapters of this volume is given A one dimensional approach to continuum mechanics in some aspects maybe misleading since the analysis is oversimplified Nevertheless it allows us to introduce the subject through the early basic steps of the continuum analysis for a general audience Chapters 3 4 and 5 are devoted to the mathematical setting of continuum analysis kinematics balance laws and thermodynamics respectively Chapters 6 and 7 are devoted to constitutive equations Chapters 8 and 9 deal with different issues in the context of linear elastostatics and linear elastodynamics and waves respectively for solids Linear Elasticity is a classical and central theory of continuum mechanics Chapter 10 deals with fluids while chapter 11 analyzes the coupled theory of thermoelasticity Chapter 12 deals with nonlinear elasticity and its role in the continuum framework Chapters 13 and 14 are dedicated to different applications of solid and fluid mechanics respectively The rest of the chapters involve some advanced topics Chapter 15 is dedicated to turbulence one of the main challenges in fluid mechanics Chapter 16 deals with electro magneto active materials a coupled theory Chapter 17 deals with specific ideas of soft matter and chapter 18 deals with configurational forces In chapter 19 constitutive equations are introduced in a general implicit form Well posedness existence time of existence uniqueness continuity of the equations of the mechanics of continua is an important topic which involves sophisticated mathematical machinery Chapter 20 presents different analyses related to these topics Continuum Mechanics is an interdisciplinary subject that attracts the attention of engineers mathematicians physicists etc working in many different disciplines from a purely scientific environment to industrial applications including biology materials science engineering and many other subjects

Continuum Mechanics Through the Eighteenth and Nineteenth Centuries Gérard A. Maugin, 2014-04-04 Conceived as a series of more or less autonomous essays the present book critically exposes the initial developments of continuum thermo mechanics in a post Newtonian period extending from the creative works of the Bernoullis to the First World war i e roughly during first the Age of reason and next the Birth of the

modern world The emphasis is rightly placed on the original contributions from the Continental scientists the Bernoulli family Euler d Alembert Lagrange Cauchy Piola Duhamel Neumann Clebsch Kirchhoff Helmholtz Saint Venant Boussinesq the Cosserat brothers Caratheodory in competition with their British peers Green Kelvin Stokes Maxwell Rayleigh Love It underlines the main breakthroughs as well as the secondary ones It highlights the role of scientists who left essential prints in this history of scientific ideas The book shows how the formidable developments that blossomed in the twentieth century and perused in a previous book of the author in the same Springer Series Continuum Mechanics through the Twentieth Century Springer 2013 found rich compost in the constructive foundational achievements of the eighteenth and nineteenth centuries The pre WWI situation is well summarized by a thorough analysis of treatises Appell Hellinger published at that time English translations by the author of most critical texts in French or German are given to the benefit of the readers

Acoustic Interactions with Submerged Elastic Structures Ardshir Guran, 2002 This series of volumes constitutes an outstanding collection of contributions by the most active research workers in the area of acoustics and mechanics It brings the reader up to date on the status of the various aspects of research in this field The volumes should preserve their value for a long time as they represent a monument to the achievements of human research capabilities in the underwater acoustics aspects of the environment

Selected Problems of Solid Mechanics and Solving Methods Holm Altenbach, Viacheslav Bogdanov, Alexander Ya. Grigorenko, Roman M. Kushnir, Vladimir M. Nazarenko, Victor A. Eremeyev, 2024-06-04 This book examines new approaches for the estimation of errors in approximate theories Numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them The problem is that nobody knows the boundaries of the estimation of errors in approximate theories This book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries These new methods are helping to solve many problems not only in analytical Mechanics but also in Physics Mathematics and Civil Engineering

Nonlinear Theory of Electroelastic and Magnetoelastic Interactions Luis Dorfmann, Ray W. Ogden, 2014-02-06 This book provides a unified theory on nonlinear electro magnetomechanical interactions of soft materials capable of large elastic deformations The authors include an overview of the basic principles of the classic theory of electromagnetism from the fundamental notions of point charges and magnetic dipoles through to distributions of charge and current in a non deformable continuum time dependent electromagnetic fields and Maxwell s equations They summarize relevant theories of continuum mechanics required to account for the deformability of material and present a constitutive framework for the nonlinear magneto and electroelastic interactions in a highly deformable material The equations contained in the book formulate and solve a variety of representative boundary value problems for both nonlinear magnetoelasticity and electroelasticity

Foundations of Micropolar Mechanics Victor A. Eremeyev, Leonid P. Lebedev, Holm Altenbach, 2012-07-25 The book presents foundations of

the micropolar continuum mechanics including a short but comprehensive introduction of stress and strain measures derivation of motion equations and discussion of the difference between Cosserat and classical Cauchy continua and the discussion of more specific problems related to the constitutive modeling i.e. constitutive inequalities symmetry groups acceleration waves etc

Nonlinear Waves in Elastic Media A.G. Kulikovskii, Elena I. Sveshnikova, 2021-06-30 Nonlinear Waves in Elastic Media explores the theoretical results of one dimensional nonlinear waves including shock waves in elastic media It is the first book to provide an in depth and comprehensive presentation of the nonlinear wave theory while taking anisotropy effects into account The theory is completely worked out and draws on 15 years of research by the authors one of whom also wrote the 1965 classic Magnetohydrodynamics Nonlinear Waves in Elastic Media emphasizes the behavior of quasitransverse waves and analyzes arbitrary discontinuity disintegration problems illustrating that the solution can be non unique a surprising result The solution is shown to be especially interesting when anisotropy and nonlinearity effects interact even in small amplitude waves In addition the text contains an independent mathematical chapter describing general methods to study hyperbolic systems expressing the conservation laws The theoretical results described in Nonlinear Waves in Elastic Media allow for the first time discovery and interpretation of many new peculiarities inherent to the general problem of discontinuous solutions and so provide a valuable resource for advanced students and researchers involved with continuum mechanics and partial differential equations

IUTAM Symposium on Modelling Nanomaterials and Nanosystems R. Pyrz, Jens C. Rauhe, 2008-12-21 Recent interest in nanotechnology is challenging the community to analyse develop and design nanometer to micrometer sized devices for applications in new generations of computer electronics photonics and drug delivery systems To successfully design and fabricate novel nanomaterials and nanosystems we must necessarily bridge the gap in our understanding of mechanical properties and processes at length scales ranging from 100 nanometers where atomistic simulations are currently possible to a micron where continuum mechanics is experimentally validated For this purpose the difficulties and complexity originate in the substantial differences in philosophy and viewpoints between conventional continuum mechanics and quantum theories The challenge lies in how to establish the relationship between a continuum mechanical system and its atomistic counterpart in order to define continuum variables that are calculable within an atomic system

Recent Developments in the Theory of Shells Holm Altenbach, Jacek Chróścielewski, Victor A. Eremeyev, Krzysztof Wiśniewski, 2019-09-25 This book commemorates the 80th birthday of Prof W Pietraszkiewicz a prominent specialist in the field of general shell theory Reflecting Prof Pietraszkiewicz's focus the respective papers address a range of current problems in the theory of shells In addition they present other structural mechanics problems involving dimension reduced models Lastly several applications are discussed including material models for such dimension reduced structures

Spatial and Material Forces in Nonlinear Continuum Mechanics Paul Steinmann, 2022-03-28 This monograph details spatial and material vistas on non linear continuum mechanics in a dissipation

consistent approach. Thereby the spatial vista renders the common approach to nonlinear continuum mechanics and corresponding spatial forces whereas the material vista elaborates on configurational mechanics and corresponding material or rather configurational forces. Fundamental to configurational mechanics is the concept of force. In analytical mechanics force is a derived object that is power conjugate to changes of generalised coordinates. For a continuum body these are typically the spatial positions of its continuum points. However if in agreement with the second law continuum points e, g on the boundary may also change their material positions. Configurational forces are then power conjugate to these configurational changes. A paradigm is a crack tip i.e. a singular part of the boundary changing its position during crack propagation with the related configurational force typically the J integral driving its evolution thereby consuming power typically expressed as the energy release rate. Taken together configurational mechanics is an unconventional branch of continuum physics rationalising and unifying the tendency of a continuum body to change its material configuration. It is thus the ideal formulation to tackle sophisticated problems in continuum defect mechanics. Configurational mechanics is entirely free of restrictions regarding geometrical and constitutive nonlinearities and offers an accompanying versatile computational approach to continuum defect mechanics. In this monograph I present a detailed summary account of my approach towards configurational mechanics thereby fostering my view that configurational forces are indeed dissipation consistent to configurational changes.

Constitutive Models for Rubber IV Per-Erik Austrell, Leif Kari, 2017-12-04 The unique properties of elastomeric materials offer numerous advantages in many engineering applications. Elastomeric units are used as couplings or mountings between rigid components for example in shock absorbers vibration insulators flexible joints seals and suspensions etc. However the complicated nature of the behaviour of such material makes it difficult to accurately predict the performance of these units using finite element modelling for example. It is imperative that constitutive models accurately capture relevant aspects of mechanical behaviour. The latest developments concerning constitutive modelling of rubber is collected in these Proceedings. Topics included in this volume are Hyperelastic models Strength fracture fatigue Dynamic properties the Fletcher Gent effect Micro mechanical statistical approaches Stress softening iscoelasticity Filler reinforcement and Tyres fibre cord reinforced rubber.

Generalized Continua - from the Theory to Engineering Applications Holm Altenbach, Victor A. Eremeyev, 2012-10-18 On the roots of continuum mechanics in differential geometry a review Cosserat media Cosserat type shells Cosserat type rods Micromorphic media Electromagnetism and generalized continua Computational methods for generalized continua. The need of generalized continua models is coming from practice. Complex material behavior sometimes cannot be presented by the classical Cauchy continua. At present the attention of the scientists in this field is focused on the most recent research items new models application of well known models to new problems micro macro aspects computational effort and possibilities to identify the constitutive equations. The new research directions are discussed in this volume from the point of view of modeling and simulation identification and numerical

methods **Theory of waves in materials ,**

Adopting the Track of Appearance: An Mental Symphony within **Mechanics Of Electromagnetic Solids**

In a world taken by monitors and the ceaseless chatter of fast connection, the melodic elegance and mental symphony developed by the written word often disappear in to the back ground, eclipsed by the constant sound and interruptions that permeate our lives. But, set within the pages of **Mechanics Of Electromagnetic Solids** a marvelous fictional prize full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this fascinating masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths with this touching assessment, we will investigate the book is key harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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