

MAGNETO-SOLID MECHANICS

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Magneto Solid Mechanics

A. Cemal Eringen, Gerard A. Maugin



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Magneto-solid Mechanics F. C. Moon, 1984 Magneto Solid Mechanics F. C. Moon, 1989 Magneto-solid Mechanics F. C. Moon, 1984 *Magneto-Solid Mechanics* Francis C. Moon, *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

Electromagneto-Mechanics of Material Systems and Structures Yasuhide Shindo, 2016-06-07 *Electromagneto Mechanics of Material Systems and Structures* Electromagneto Mechanics of Material Systems and Structures Written by a leading expert this book is a comprehensive introduction to the fundamentals and the state of the art in the electromagneto mechanics of adaptive materials Its varied topic range includes an overview on how electric magnetic and deformation fields interact with each other in the presence of advanced materials systems such as electric conductors dielectrics ferromagnets among others Within this context the author considers for each material system specific phenomena like vibrations wave propagation fracture and fatigue Readers will also gain a thorough understanding of applications in the electronics and nuclear energy industries as well as in smart materials and MEMS Covers a wide and varied range of subject areas spanning theoretical experimental computational studies as well as industrial applications Features extensive applications in the electronics nuclear engineering smart materials and MEMS industries Takes the reader from fundamental concepts applied research applications through to emerging technologies *Electromagneto Mechanics of Material Systems and Structures* is an all in one reference for advanced graduate students in mechanical and electrical engineering as well as materials science It

also serves as a handy refresher guide for engineers in related areas such as aeronautical and civil engineering

Mechanics and Electrodynamics of Magneto- and Electro-elastic Materials Raymond Ogden, David Steigmann, 2011-05-25 This volume presents a state of the art overview of the continuum theory of both electro and magneto sensitive elastomers and polymers which includes mathematical and computational aspects of the modelling of these materials from the point of view of material properties and in particular the smart material control of their mechanical properties

Advanced Topics in Mechanics of Materials, Structures and Construction Erasmo Carrera, Faramarz Djavanroodi, 2023-09-01 The book presents 81 papers referring to the properties and applications of technologically important materials Topics covered include material characterization environmental impact probabilistic assessment failure analysis vibration analysis AI based predictions conceptual models thermo mechanical properties numerical models design and simulation industrial performance and failure analysis Keywords Laminated Sandwich Shell Polymer Nanocomposite Cellular Glass Foam Porous Spherical Shells Cracks Between Dissimilar Materials Soil Stabilization Dynamic Strain Aging Composite Plates Recycled Concrete Aggregates Preparation Characterization of Nanoparticles Auxetic Materials Biomechanical Model Cellular Lightweight Concrete Thermoplastic Materials Powder Metal Gears Fibre Reinforced Concrete Adhesively Bonded Composites Solar PV Power Kirigami Folded Structures Steel Fibres Solar Panels Electric Discharge Machining Energy Harvesting Energy Conversion Glass Epoxy Pipe Manufacturing Strategy Additive Manufacturing Fibre Reinforced Aluminum Telescopic Paraboloidal Solar Concentrator Energy Storage Machining Waste Fibers Numerical Simulation Foam Concrete Heat Exchangers Nanofluids Spherical Cavity Explosion Cross Ply Structure Reinforced Concrete Walls Artificial Intelligence l shaped Metamaterials Sand Bentonite Liners Layered Composite Arches Stitched Sandwich Structures Semilinear Hyperelastic Solids Filament Fabrication Polyethylene Bottles Spherical Shells Steel Boiler Tub Mortars 3D Printing Electromagnetic Forming

Magnetoelastic Vibrations and Stability of Magnetically Active Plates and Shells Gevorg Y. Baghdasaryan, Marine A. Mikilyan, 2024-06-25 This book introduces the reader to methods of mathematical modeling and solving non stationary dynamic problems of the theory of magnetoelasticity as well as to give an idea of the wealth of physical effects caused by the interaction of electromagnetic and mechanical phenomena in magnetically active elastic thin bodies The studies are mainly limited to a model of isotropic body under the assumption of small deformations In the first chapter of the book based on the basic connected nonlinear equations and relations of mechanics and quasi static electrodynamics of continuum media a system of equations of magnetoelasticity surface conditions and governing equations describing the behavior of disturbances in a magnetoactive medium interacting with an external magnetic field is obtained On this basis in Chapters 2 and 3 using the main equations and relations of magnetoelastic vibrations and stability of magnetically soft thin plates and shells are obtained By solving specific applied problems a number of qualitative and quantitative results were identified caused by the interaction of mechanical and

magnetic phenomena in ferromagnetic thin bodies An approximate formula is obtained to determine magnetohydrodynamic pressure on the oscillating surfaces of plate flowing by supersonic flow of perfectly conducting gas in the presence of magnetic field This formula is the generalization of well known formula obtained on the basis of the classical piston theory of gas dynamics in the case of magneto gas dynamic flow On this basis it became possible to solve complex problems of aeromagnetoelasticity In the 4th and 5th chapters magnetoelastic processes in superconducting thin shells located in stationary and non stationary magnetic fields are studied Two dimensional equations and corresponding conditions are obtained which characterize vibrations and stability of superconducting cylindrical and spherical shells under the influence of the given magnetic field By solving specific problems the possibility of loss of both static and dynamic stability of thin superconducting bodies under the influence of external magnetic field has been established The sixth chapter is devoted to mathematical modeling and investigation of issues of dynamics of magnetostrictive plates in magnetic fields stationary and non stationary of several orientations To study the processes of magnetoelastic interaction in the plate under consideration with complex physical properties of its material the main postulates of the classical theories and methods were used The influence of plate in homogeneity on the processes under consideration was also studied Dynamic processes in layered plates have been studied It is shown that heterogeneity is sufficient to control optimally the studied dynamic processes especially those that arise as a result of interaction The last 7th chapter is devoted to the investigation of stability of dielectric thin plates in a supersonic flow of perfectly conducting gas in the presence of magnetic field The problems were studied in both linear and nonlinear formulations Based on the formula obtained by the authors specific problems of stability were solved Influence of magnetic field on the flutter characteristics is studied Effects of Magnetoelastic Interactions in Conductive Plates and Shells Gevorg Baghdasaryan, Marine Mikilyan, 2015-08-26 This book investigates the stability and vibrations of conductive perfectly conductive and superconductive thin bodies in electromagnetic fields It introduces the main principles and derives basic equations and relations describing interconnected mechanical and electromagnetic processes in deformable electro conductive bodies placed in an external inhomogeneous magnetic field and under the influence of various types of force interactions Basic equations and relations are addressed in the nonlinear formulation and special emphasis is placed on the mechanical interactions of superconducting thin body plates with magnetic fields *Magneto-Active Polymers* Jean-Paul Pelteret, Paul Steinmann, 2019-12-16 From fabrication to testing and modeling this monograph covers all aspects on the materials class of magneto active polymers The focus is on computational modeling of manufacturing processes and material parameters As other smart materials these elastomers have the ability to change electrical and mechanical properties upon application of magnetic fields This allows for novel applications ranging from biomedical engineering to mechatronics 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 **Electrodynamics of Continua I** A. Cemal Eringen, Gerard A. Maugin, 2012-12-06

The electrodynamics of continua is a branch of the physical sciences concerned with the interaction of electromagnetic fields with deformable bodies Deformable bodies are considered to be continua endowed with continuous distributions of mass and charge The theory of electromagnetic continua is concerned with the determination of deformations motions stress and electromagnetic fields developed in bodies upon the applications of external loads External loads may be of mechanical origin e g forces couples constraints placed on the surface of the body and initial and boundary conditions arising from thermal and other changes and or electromagnetic origin e g electric magnetic and current fields Because bodies of different constitutions respond to external stimuli in a different way it is imperative to characterize properly the response functions relevant to a given class of continua This is done by means of the constitutive theory For example an elastic dielectric responds to electromagnetic fields in a totally different way than a magnetic fluid The present book is intended to present a unified approach to the subject matter based on the principles of contemporary continuum physics Constitutive Models for Rubber IV Per-Erik

Austrell, 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 **Applied Mechanics Reviews** ,1975

Theory of Electroelasticity Zhen-Bang Kuang, 2013-08-04 Theory of Electroelasticity analyzes the stress strain electric field and electric displacement in electroelastic structures such as sensors actuators and other smart materials and structures This book also describes new theories such as the physical variational principle and the inertial entropy theory It differs from the traditional method by using the physical variational principle to derive the governing equations of the piezoelectric material whereas the Maxwell stress is obtained automatically By using the inertial entropy theory the temperature wave equation is obtained very easily The book is intended for scientists researchers and engineers in the areas of mechanics physics smart material and control engineering as well as mechanical aeronautical and civil engineering etc Zhen Bang Kuang is a professor at Shanghai Jiao Tong University Advances in Applied Mechanics ,1966-01-01 Advances

in Applied Mechanics 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 Analysis and Thermomechanics Bernard D. Coleman, Martin Feinberg, James Serrin, 2012-12-06 This book presents a collection of papers giving the flavor of current research activities in continuum mechanics fluid mechanics thermodynamics and the mathematical analysis related to these topics Written by leading experts in the field all the papers in this collection have been carefully refereed according to the standards of the Archive for Rational Mechanics and Analysis

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

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