Applied Mathematics and Mathematical Computation 3

Material Inhomogeneities in Elasticity

Gérard Maugin



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Gerard A. Maugin

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Material Inhomogeneities and their Evolution Marcelo Epstein, Marek Elzanowski, 2007-08-03 With its origins in the theories of continuous distributions of dislocations and ofmetalplasticity inhomogeneity theory is arichandvibrant eldofresearch. The recognition of the important role played by con gurational or material forces in phenomena such as growth and remodelling is perhaps its greatest present day impetus. While some excellent comprehensive works approa ing the subject from di erent angles have been published the objective of this monograph is to present a point of view that emphasizes the di erenti geometric aspects of inhomogeneity theory. In so doing we follow the general lines of thought that we have propounded

in many publications and presen tions over the last two decades Although based on these sources this book is a stand alone entity and contains some new results and perspectives At the same time it does not intend to present either a historical account of the velopment of the subject or a comprehensive picture of the various schools of thought that can be encountered by perusing scholarly journals and attending specialized symposia. The book is divided into three parts the rst of which is entirely devoted to the formulation of the theory in the absence of evolution In other words time is conspicuously absent from Part I It opens with the geometric ch acterization of material inhomogeneity within the context of simple bodies in Chapter 1 Anisotropy and Inhomogeneity in followed by extensions to second grade and Cosserat media in Chapters 2 and 3 Elasticity and Plasticity Yves Christian Angel, 1993 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 Defect and Material Mechanics C. Dascalu, Gérard A. Maugin, Claude Stolz, 2008-03-26 This volume presents recent developments in the theory of defects and the mechanics of material forces Most of the contributions were presented at the International Symposium on Defect and Material Forces ISDMM2007 held in Aussois France March 2007 Configurational Forces Gerard A. Maugin, 2016-04-19 Exploring recent developments in continuum mechanics Configurational Forces Thermomechanics Physics Mathematics and Numerics presents the general framework for configurational forces It also covers a range of applications in engineering and condensed matter physics The author presents the fundamentals of accepted standard continuum mechanics before introducing Eshelby material stress field theory variational formulations Noether's theorem and the resulting conservation laws In the chapter on complex continua he compares the classical perspective of B D Coleman and W Noll with the viewpoint linked to abstract field theory He then describes the important notion of local structural rearrangement and its relationship to Eshelby stress After looking at the relevance of Eshelby stress in the thermodynamic description of singular interfaces the text focuses on fracture problems microstructured media systems with mass exchanges and electromagnetic deformable media The concluding chapters discuss the exploitation of the canonical conservation law of momentum in nonlinear wave propagation the application of canonical momentum conservation law and material force in numerical schemes and similarities of fluid mechanics and aerodynamics Written by a long time researcher in mechanical engineering this book provides a detailed treatment of the theory of configurational forces one of the latest and most fruitful advances in macroscopic field theories Through many applications it shows the depth and efficiency of this theory 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 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 Composite Materials: Optimal Design, Modeling and Characterization Fernando Fraternali, Chiara Daraio, Julian J. Mechanics of Material Forces Paul Steinmann, Gérard A. Maugin, 2006-01-20 The notion dealt with in Rimoli,2019-11-26 this volume of proceedings is often traced back to the late 19th century writings of a rather obscure scientist C V Burton A probable reason for this is that the painstaking de ciphering of this author's paper in the Philosophical Magazine Vol 33 pp 191 204 1891 seems to reveal a notion that was introduced in math ematical form much later that of local structural rearrangement This notion obviously takes place on the material manifold of modern con tinuum mechanics It is more or less clear that seemingly different phe nomena phase transition local destruction of matter in the form of the loss of local ordering such as in the appearance of structural defects or of the loss of cohesion by the appearance of damage or the exten sion of cracks plasticity material growth in the bulk or at the surface by accretion wear and the production of debris should enter a com mon framework where by pure logic the material manifold has to play a prominent role Finding the mathematical formulation for this was one of the great achievements of J D Eshelby He was led to consider the apparent but true motion or displacement of embedded material inhomogeneities and thus he began to investigate the driving force causing this motion or displacement something any good mechanician would naturally introduce through the duahty inherent Configurational Mechanics V.K. Kalpakides, G.A. Maugan, 2004-11-23 This book in mechanics since J L d Alembert comprises papers that were presented at the Symposium on Configurational Mechanics during the 5th EUROMECH Soil Mechanics Conference in Thessaloniki in August 2003 Configurational or material mechanics in contrast to Newtonian mechanics in Euclidean space concerns any sort of change or motion in the material configuration This framework provides a novel and unifying view on otherwise diverse disciplines like fracture mechanics phase transitions plasticity and dislocation theory In addition configurational mechanics can be used in computations because it provides a fruitful interpretation of the field equations in the discretized space This volume contains eleven contributions from specialists from around Europe Articles concern both theoretical and computational mechanics electroplasticity magnetoelasticity elastoplasticity as well as granular multiphase and micropolar media **Continuum Mechanics Through the Twentieth Century Gerard A** Maugin, 2013-04-08 This overview of the development of continuum mechanics throughout the twentieth century is unique and ambitious Utilizing a historical perspective it combines an exposition on the technical progress made in the field and a

marked interest in the role played by remarkable individuals and scientific schools and institutions on a rapidly evolving social background It underlines the newly raised technical questions and their answers and the ongoing reflections on the bases of continuum mechanics associated or in competition with other branches of the physical sciences including thermodynamics The emphasis is placed on the development of a more realistic modeling of deformable solids and the exploitation of new mathematical tools The book presents a balanced appraisal of advances made in various parts of the world The author contributes his technical expertise personal recollections and international experience to this general overview which is very informative albeit concise Nonlinear Waves in Elastic Crystals Gérard A. Maugin, 1999 The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects combine or compete with each other Physical and mathematical models are discused and computational aspects are also included Different models are considered on discrete as well as continuum scales applying heat electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics In this way the student is introduced to the important equations of nonlinear science that describe shock waves solitons and chaos and also the non exactly integrable systems or partial differential equations A large number of problems and examples are included many taken from recent research and involving both one dimensional and two dimensional problems as well as some coupled degress of freedom **Continuous Media with** Microstructure Bettina Albers, 2010-03-15 This book discusses the extension of classical continuum models To the first class addressed belong various thermodynamic models of multicomponent systems and to the second class belong primarily microstructures created by phase transformations Internal Variables in Thermoelasticity Arkadi Berezovski, Peter Ván, 2017-05-05 This book describes an effective method for modeling advanced materials like polymers composite materials and biomaterials which are as a rule inhomogeneous The thermoelastic theory with internal variables presented here provides a general framework for predicting a material s reaction to external loading The basic physical principles provide the primary theoretical information including the evolution equations of the internal variables. The cornerstones of this framework are the material representation of continuum mechanics a weak nonlocality a non zero extra entropy flux and a consecutive employment of the dissipation inequality Examples of thermoelastic phenomena are provided accompanied by detailed procedures demonstrating how to simulate them **IUTAM Symposium on Scaling in Solid Mechanics** F. M. Borodich, 2008-11-14 This volume constitutes the Proceedings of the IUTAM Symposium on Scaling in Solid Mechanics held in Cardiff from 25th to 29th June 2007 The Symposium was convened to address and place on record topical issues in theoretical experimental and computational aspects of scaling approaches to solid mechanics and related elds Scaling is a rapidly expanding area of research having multidisciplinary plications The expertise represented in the Symposium was

accordingly very wide and many of the world's greatest authorities in their respective elds participated Scaling methods apply wherever there is similarity across many scales or one need to bridge different scales e g the nanoscale and macroscale The emphasis in the Symposium was upon fundamental issues such as mathematical foundations of scaling methods based on transformations and connections between multi scale approaches and transformations The Symposium remained focussed on fundam tal research issues of practical signi cance The considered topics included damage accumulation growth of fatigue cracks development of patterns of aws in earth s core and inice abrasiveness of rough surfaces and soon The Symposium consisted of forty two oral presentations All of the lectures were invited Full record of the programme appears as an Appendix Several of the lectures are not represented mainly because of prior commitments to publish elsewhere The proceedings p vide a reasonable picture of understanding as it exists at present The Symposium showed that scaling methods cannot be reduced solely to dimensional analysis and fractal approaches **Advances in Heterogeneous Material** Mechanics 2008 Jinghong Fan, Haibo Chen, 2008 The International Conference on Heterogeneous Material Mechanics ICHMM in Huangshan China June 3 8 2008 follows the successful inaugural ICHMM held in ChongQing China in June 2004 The ICHMM series is the first international forum that focuses exclusively on various issues related to the behavior of heterogeneous materials in a broad sense The object of the ICHMM is to present and publicize integrated scientific and engineering approaches to the measurement and modeling of phenomena at the interface of materials science physics chemistry biology and solid mechanics Preface p xxxix Non-Classical Continuum Mechanics Gérard A. Maugin, 2016-09-24 This dictionary offers clear and reliable explanations of over 100 keywords covering the entire field of non classical continuum mechanics and generalized mechanics including the theory of elasticity heat conduction thermodynamic and electromagnetic continua as well as applied mathematics Every entry includes the historical background and the underlying theory basic equations and typical applications. The reference list for each entry provides a link to the original articles and the most important in depth theoretical works Last but not least ever y entry is followed by a cross reference to other related subject entries in the dictionary Generalized Models and Non-classical Approaches in Complex Materials 1 Holm Altenbach, Joël Pouget, Martine Rousseau, Bernard Collet, Thomas Michelitsch, 2018-03-24 This book is the first of 2 special volumes dedicated to the memory of G rard Maugin Including 40 papers that reflect his vast field of scientific activity the contributions discuss non standard methods generalized model to demonstrate the wide range of subjects that were covered by this exceptional scientific leader The topics range from micromechanical basics to engineering applications focusing on new models and applications of well known models to new problems They include micro macro aspects computational endeavors options for identifying constitutive equations and old problems with incorrect or non satisfying solutions based on the classical continua assumptions

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might be hinting at the shadow archetype the unknown part of the dreamer if the dogs eyes are

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