

Microcontinuum Field Theories

II: FLUENT MEDIA

A. Cemal Eringen

Microcontinuum Field Theories Ii

Holm Altenbach



Microcontinuum Field Theories II:

Microcontinuum Field Theories A. Cemal Eringen, 2001-03-30 This volume extends and applies the ideas developed in Volume I Microcontinuum Field Theories Foundations and Solids to liquid crystals biological fluids and other microstretch and micromorphic fluids It also discusses the properties of materials beyond the scope of classical field theories **Nonlocal**

Continuum Field Theories A. Cemal Eringen, 2002-06-14 Nonlocal continuum field theories are concerned with material bodies whose behavior at any interior point depends on the state of all other points in the body rather than only on an effective field resulting from these points in addition to its own state and the state of some calculable external field Nonlocal field theory extends classical field theory by describing the responses of points within the medium by functionals rather than functions the constitutive relations of classical field theory Such considerations are already well known in solid state physics where the nonlocal interactions between the atoms are prevalent in determining the properties of the material The tools developed for crystalline materials however do not lend themselves to analyzing amorphous materials or materials in which imperfections are a major part of the structure Nonlocal continuum theories by contrast can describe these materials faithfully at scales down to the lattice parameter This book presents a unified approach to field theories for elastic solids viscous fluids and heat conducting electromagnetic solids and fluids that include nonlocal effects in both space and time memory effects The solutions to the field equations agree remarkably well with atomic theories and experimental observations

Mechanics of Generalized Continua Gérard A. Maugin, Andrei V. Metrikine, 2010-03-24 In their 1909 publication *Théorie des corps déformables* Eugène and François Cosserat made a historic contribution to materials science by establishing the fundamental principles of the mechanics of generalized continua The chapters collected in this volume showcase the many areas of continuum mechanics that grew out of the foundational work of the Cosserat brothers The included contributions provide a detailed survey of the most recent theoretical developments in the field of generalized continuum mechanics and can serve as a useful reference for graduate students and researchers in mechanical engineering materials science applied physics and applied mathematics [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 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 *Similarity Solutions for*

the Boundary Layer Flow and Heat Transfer of Viscous Fluids, Nanofluids, Porous Media, and Micropolar Fluids John H.

Merkin, Ioan Pop, Yian Yian Lok, Teodor Grosan, 2021-09-09 *Similarity Solutions for the Boundary Layer Flow and Heat Transfer of Viscous Fluids Nanofluids Porous Media and Micropolar Fluids* presents new similarity solutions for fluid

mechanics problems including heat transfer of viscous fluids boundary layer flow flow in porous media and nanofluids due to continuous moving surfaces After discussing several examples of these problems similarity solutions are derived and solved using the latest proven methods including bvp4c from MATLAB the Keller box method singularity methods and more Numerical solutions and asymptotic results for limiting cases are also discussed in detail to investigate how flow develops at the leading edge and its end behavior Detailed discussions of mathematical models for boundary layer flow and heat transfer of micro polar fluid and hybrid nanofluid will help readers from a range of disciplinary backgrounds in their research Relevant background theory will also be provided thus helping readers solidify their computational work with a better understanding of physical phenomena Provides mathematical models that address important research themes such as boundary layer flow and heat transfer of micro polar fluid and hybrid nanofluid Gives detailed numerical explanations of all solution procedures including bvp4c from MATLAB the Keller box method and singularity methods Includes examples of computer code that will save readers time in their own work

Microcontinuum Field Theories A. Cemal

Eringen,2012-12-06 Microcontinuum field theories constitute an extension of classical field theories of elastic bodies deformations electromagnetism and the like to microscopic spaces and short time scales Material bodies are here viewed as collections of large numbers of deformable particles much as each volume element of a fluid in statistical mechanics is viewed as consisting of a large number of small particles for which statistical laws are valid Classical continuum theories are valid when the characteristic length associated with external forces or stimuli is much larger than any internal scale of the body under consideration When the characteristic lengths are comparable however the response of the individual constituents becomes important for example in considering the fluid or elastic properties of blood porous media polymers liquid crystals slurries and composite materials This volume is concerned with the kinematics of microcontinua It begins with a discussion of strain stress tensors balance laws and constitutive equations and then discusses applications of the fundamental ideas to the theory of elasticity

Damage Mechanics in Metal Forming Khemais Saanouni,2013-02-04

The aim of this book is to summarize the current most effective methods for modeling simulating and optimizing metal forming processes and to present the main features of new innovative methods currently being developed which will no doubt be the industrial tools of tomorrow It discusses damage or defect prediction in virtual metal forming using advanced multiphysical and multiscale fully coupled constitutive equations Theoretical formulation numerical aspects as well as application to various sheet and bulk metal forming are presented in detail Virtual metal forming is nowadays inescapable when looking to optimize numerically various metal forming processes in order to design advanced mechanical components To do this highly predictive constitutive equations accounting for the full coupling between various physical phenomena at various scales under large deformation including the ductile damage occurrence are required In addition fully 3D adaptive numerical methods related to time and space discretization are required in order to solve accurately the associated initial and boundary

value problems This book focuses on these two main and complementary aspects with application to a wide range of metal forming and machining processes Contents 1 Elements of Continuum Mechanics and Thermodynamics 2 Thermomechanically Consistent Modeling of the Metals Behavior with Ductile Damage 3 Numerical Methods for Solving Metal Forming Problems 4 Application to Virtual Metal Forming

Earthquake Source Asymmetry, Structural Media and Rotation Effects Roman Teisseyre, Minoru Takeo, Eugeniusz Majewski, 2006-07-01 This breakthrough book is the first to examine the rotational effects in earthquakes a revolutionary concept in seismology Existing models do not yet explain the significant rotational and twisting motions that occur during an earthquake and cause the failure of structures The rotation and twist effects are investigated and described and their consequences for designing tall buildings and other important structures are presented This book will change the way the world views earthquakes

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

Extreme Environmental Events Robert A. Meyers, 2010-11-03 Extreme Environmental Events is an authoritative single source for understanding and applying the basic tenets of complexity and systems theory as well as the tools and measures for analyzing complex systems to the prediction monitoring and evaluation of major natural phenomena affecting life on earth These phenomena are often highly destructive and include earthquakes tsunamis volcanoes climate change and weather Early warning damage and the immediate response of human populations to these phenomena are also covered from the point of view of complexity and nonlinear systems In 61 authoritative state of the art articles world experts in each field apply such tools and concepts as fractals cellular automata solitons game theory network theory and statistical physics to an understanding of these complex geophysical phenomena

The Catalogue of Computational Material Models Paul

Steinmann, Kenneth Runesson, 2021-02-16 This book gives a comprehensive account of the formulation and computational treatment of basic geometrically linear models in 1D To set the stage it assembles some preliminaries regarding necessary modelling computational and mathematical tools Thereafter the remaining parts are concerned with the actual catalogue of computational material models To this end after starting out with elasticity as a reference further 15 different basic variants of material models 5 x each of visco elasticity plasticity visco plasticity respectively are systematically explored The presentation for each of these basic material models is a stand alone account and follows in each case the same structure On the one hand this allows in the true sense of a catalogue to consult each of the basic material models separately without the need to refer to other basic material models On the other hand even though this somewhat repetitious concept may seem tedious it allows to compare the formulation and resulting algorithmic setting of the various basic material models and thereby to uncover in detail similarities and differences In particular the response of each basic material model is analysed for the identical histories Zig Zag Sine Ramp of prescribed strain and stress so as to clearly showcase and to contrast to each other the characteristics of the various modelling options *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 **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 **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

Introduction to the Variational Formulation in Mechanics Edgardo O. Taroco, Pablo J. Blanco, Raúl A. Feijóo, 2020-02-25 Introduces readers to the fundamentals and applications of variational formulations in mechanics Nearly 40 years in the making this book provides students with the foundation material of mechanics using a variational tapestry It is centered around the variational structure underlying the Method of Virtual Power MVP The variational approach to the modeling of physical systems is the preferred approach to address complex mathematical modeling of both continuum and discrete media This book provides a unified theoretical framework for the construction of a wide range of multiscale models Introduction to the Variational Formulation in Mechanics Fundamentals and Applications enables readers to develop on top of solid mathematical variational bases and following clear and precise systematic steps several models of physical systems including problems involving multiple scales It covers Vector and Tensor Algebra Vector and Tensor Analysis Mechanics of Continua Hyperelastic Materials Materials Exhibiting Creep Materials Exhibiting Plasticity Bending of Beams Torsion of Bars Plates and Shells Heat Transfer Incompressible Fluid Flow Multiscale Modeling and more A self contained reader friendly approach to the variational formulation in the mechanics Examines development of advanced variational formulations in different areas within the field of mechanics using rather simple arguments and explanations Illustrates application of the variational modeling to address hot topics such as the multiscale modeling of complex material behavior Presentation of the Method of Virtual Power as a systematic tool to construct mathematical models of physical systems gives readers a fundamental asset towards the architecture of even more complex or open problems Introduction to the Variational Formulation in Mechanics Fundamentals and Applications is a ideal book for advanced courses in engineering and mathematics and an excellent resource for researchers in engineering computational modeling and scientific computing

Advanced Continuum Theories And Finite Element Analyses James D Lee, Jiaoyan Li, 2020-01-08 This comprehensive volume presents a unified framework of continuum theories It indicates that i microcontinuum theories micromorphic and micropolar theories are natural extension of classical continuum mechanics and ii classical continuum mechanics is a special case of microcontinuum theories when the deformable material point is idealized as a single mathematical point The kinematics and basic laws are rigorously derived Based on axiomatic approach constitutive theory is systematically derived for various kinds of materials ranging from Stokesian fluid to thermo visco elastic plastic solid Material force and Thermomechanical electromagnetic coupling are introduced and discussed Moreover general finite element methods for large strain thermomechanical coupling physical phenomena are systematically formulated Also non classical continuum theories Nonlocal Theory Mechanobiology 4D printing Poromechanics and Non Self Similar Crack Propagation are rigorously formulated with applications and demonstrated numerically As an advanced monograph this unique compendium can also be used as a textbook for several graduate courses including continuum

mechanics finite element methods and advanced engineering science theories Extensive problems are provided to help students to better understand the topics covered

Practical Multiscaling Jacob Fish, 2013-09-03 Practical Multiscaling covers fundamental modelling techniques aimed at bridging diverse temporal and spatial scales ranging from the atomic level to a full scale product level It focuses on practical multiscale methods that account for fine scale material details but do not require their precise resolution The text material evolved from over 20 years of teaching experience at Rensselaer and Columbia University as well as from practical experience gained in the application of multiscale software This book comprehensively covers theory and implementation providing a detailed exposition of the state of the art multiscale theories and their insertion into conventional single scale finite element code architecture The robustness and design aspects of multiscale methods are also emphasised which is accomplished via four building blocks upscaling of information systematic reduction of information characterization of information utilizing experimental data and material optimization To ensure the reader gains hands on experience a companion website hosting a lite version of the multiscale design software MDS Lite is available Key features Combines fundamental theory and practical methods of multiscale modelling Covers the state of the art multiscale theories and examines their practical usability in design Covers applications of multiscale methods Accompanied by a continuously updated website hosting the multiscale design software Illustrated with colour images Practical Multiscaling is an ideal textbook for graduate students studying multiscale science and engineering It is also a must have reference for government laboratories researchers and practitioners in civil aerospace pharmaceutical electronics and automotive industries and commercial software vendors

Giants of Engineering Science O. Anwar Bég, 2003 Giants of Engineering Science is a biographical monograph examining the life and works of ten of the world s leading engineering scientists

Applied Analysis And Differential Equations Ovidiu Carja, Ioan I Vrabie, 2007-03-27 This volume contains refereed research articles written by experts in the field of applied analysis differential equations and related topics Well known leading mathematicians worldwide and prominent young scientists cover a diverse range of topics including the most exciting recent developments A broad range of topics of recent interest are treated existence uniqueness viability asymptotic stability viscosity solutions controllability and numerical analysis for ODE PDE and stochastic equations The scope of the book is wide ranging from pure mathematics to various applied fields such as classical mechanics biomedicine and population dynamics

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 every entry is followed by a cross reference to other related subject entries in the

dictionary

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