

M. Šilhavý

The Mechanics and Thermodynamics of Continuous Media



Springer

Mechanics And Thermodynamics Of Continuous Media

**Kaplan S. Basniev, Nikolay M.
Dmitriev, G. V. Chilingar, Misha
Gorfunkle, Amir G. Mohammed Nejad**

Mechanics And Thermodynamics Of Continuous Media:

The Mechanics and Thermodynamics of Continuous Media Miroslav Silhavy, 2013-11-27 This book presents the nonlinear theories of continuum thermomechanics Through out 1 emphasize issues that are foundational in nature and seek results common to materials of arbitrary symmetry The central part of the book deals with thermoelastic bodies with heat conduction and viscosity including the inviscid or ideal dissipation less bodies A surprising variety of phenomena can be modeled within this frame work Moreover the main ideas can be transferred into more complicated theories At present the major challenge to the non linear thermoelasticity is posed by phase transformations with changes in symmetry 1 W Gibbs immensely influen tial treatise On the equilibrium of heterogeneous substances has provided a highly successful theory of phase transitions in fluids Gibbs brought the view that the thermodynamics is not only the theory of heat but also a theory of equilibrium with the of the book is an extension of main tool the minimum principles A large portion Gibbs ideas to bodies of general symmetry by the methods of the calculus of varia tions The interplay between the convexity properties of the stored energy functions the resulting equations and the physics of the phenomena is a leading theme *Theoretical Analyses, Computations, and Experiments of Multiscale Materials* Ivan Giorgio, Luca Placidi, Emilio Barchiesi, Bilen Emek Abali, Holm Altenbach, 2022-05-03 This book is devoted to the 60th birthday of the Prof Francesco dell Isola who is known for his long term contribution in the field of multiscale materials It contains several contributions from researchers in the field covering theoretical analyses computational aspects and experiments *Maximum Dissipation Non-Equilibrium Thermodynamics and its Geometric Structure* Henry W. Haslach Jr., 2011-01-15 Maximum Dissipation Non Equilibrium Thermodynamics and its Geometric Structure explores the thermodynamics of non equilibrium processes in materials The book develops a general technique created in order to construct nonlinear evolution equations describing non equilibrium processes while also developing a geometric context for non equilibrium thermodynamics Solid materials are the main focus in this volume but the construction is shown to also apply to fluids This volume also Explains the theory behind thermodynamically consistent construction of non linear evolution equations for non equilibrium processes Provides a geometric setting for non equilibrium thermodynamics through several standard models which are defined as maximum dissipation processes Emphasizes applications to the time dependent modeling of soft biological tissue Maximum Dissipation Non Equilibrium Thermodynamics and its Geometric Structure will be valuable for researchers engineers and graduate students in non equilibrium thermodynamics and the mathematical modeling of material behavior **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

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

Advanced Methods of Continuum Mechanics for Materials and Structures Konstantin Naumenko, Marcus Aßmus, 2016-05-12 This volume presents a collection of contributions on advanced approaches of continuum mechanics which were written to celebrate the 60th birthday of Prof Holm Altenbach The contributions are on topics related to the theoretical foundations for the analysis of rods shells and three dimensional solids formulation of constitutive models for advanced materials as well as development of new approaches to the modeling of damage and fractures

A Gradient Crystal Plasticity Theory Based on an Extended Energy Balance Prahs, Andreas, 2020-09-15 An overview of different methods for the derivation of extended continuum models is given A gradient

plasticity theory is established in the context of small deformations and single slip by considering the invariance of an extended energy balance with respect to Euclidean transformations where the plastic slip is considered as an additional degree of freedom Thermodynamically consistent flow rules at the grain boundary are derived The theory is applied to a two and a three phase laminate Continuum Thermodynamics Bettina Albers,Krzysztof Wilmański,2014-11-12 This second part of Continuum Thermodynamics is designed to match almost one to one the chapters of Part I This is done so that the reader studying thermodynamics will have a deepened understanding of the subjects covered in Part I The aims of the book are in particular the illustration of basic features of some simple thermodynamical models such as ideal and viscous fluids non Newtonian fluids nonlinear solids interactions with electromagnetic fields and diffusive porous materials A further aim is the illustration of the above subjects by examples and simple solutions of initial and boundary problems as well as simple exercises to develop skills in the construction of interdisciplinary macroscopic models Continuum Thermodynamics - Part II: Applications And Examples Krzysztof Wilmanski,Bettina Albers,2014-11-12 This second part of Continuum Thermodynamics is designed to match almost one to one the chapters of Part I This is done so that the reader studying thermodynamics will have a deepened understanding of the subjects covered in Part I The aims of the book are in particular the illustration of basic features of some simple thermodynamical models such as ideal and viscous fluids non Newtonian fluids nonlinear solids interactions with electromagnetic fields and diffusive porous materials A further aim is the illustration of the above subjects by examples and simple solutions of initial and boundary problems as well as simple exercises to develop skills in the construction of interdisciplinary macroscopic models Mechanics of Fluid Flow Kaplan S. Basniev,Nikolay M. Dmitriev,G. V. Chilingar,Misha Gorfunkle,Amir G. Mohammed Nejad,2012-11-07 The mechanics of fluid flow is a fundamental engineering discipline explaining both natural phenomena and human induced processes and a thorough understanding of it is central to the operations of the oil and gas industry This book written by some of the world's best known and respected petroleum engineers covers the concepts theories and applications of the mechanics of fluid flow for the veteran engineer working in the field and the student alike It is a must have for any engineer working in the oil and gas industry **Poromechanics** J.F. Thimus,et al,2020-12-18 This text features 105 papers dealing with the fundamentals and the applications of poromechanics from the Biot conference of 1998 held in Louvain la Neuve Topics include wave propagation numerical modelling identification of poromechanical parameters and constitutive modelling **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 *Irreversible*

Thermodynamics of Continuous Media Kirk C. Valanis, 2014-05-04

Thermodynamical Problems of Continuous Media

Piotr Perzyna, Zbigniew Płochocki, K. C. Valanis, 1970

Foundations of Elastoplasticity: Subloading Surface Model Koichi

Hashiguchi, 2017-05-06 This book is the standard text book of elastoplasticity in which the elastoplasticity theory is

comprehensively described from the conventional theory for the monotonic loading to the unconventional theory for the cyclic loading behavior. Explanations of vector tensor analysis and continuum mechanics are provided first as a foundation for elastoplasticity theory covering various strain and stress measures and their rates with their objectivities. Elastoplasticity has been highly developed by the creation and formulation of the subloading surface model which is the unified fundamental law for irreversible mechanical phenomena in solids. The assumption that the interior of the yield surface is an elastic domain is excluded in order to describe the plastic strain rate due to the rate of stress inside the yield surface in this model aiming at the prediction of cyclic loading behavior although the yield surface enclosing the elastic domain is assumed in all the elastoplastic models other than the subloading surface model. Then the plastic strain rate develops continuously as the stress approaches the yield surface providing the advantages: 1 The tangent modulus changes continuously, 2 The yield judgment whether the stress reaches the yield surface is not required, 3 The stress is automatically attracted to the yield surface even when it goes out from the yield surface by large loading increments in numerical calculation, and 4 The finite strain theory based on the multiplicative decomposition of deformation gradient tensor is formulated exactly. Consequently the monotonic, the cyclic, the non proportional loading behaviors for wide classes of materials including soils, rocks and concretes in addition to metals can be described rigorously by the subloading surface model. Further the viscoplastic constitutive equations in a general rate from the quasi static to the impact loadings are described and constitutive equations of friction behavior and its application to the prediction of stick slip phenomena etc are also described in detail. In addition the return mapping algorithm, the consistent tangent modulus etc are explained for the numerical analyses. Further the damage, the phase transformation and the crystal plasticity models are also described in brief. All of them are based on the subloading surface model. The elastoplasticity analysis will be advanced steadily based on the subloading surface model. **FEFLOW** Hans-Jörg G.

Diersch, 2013-11-22 FEFLOW is an acronym of Finite Element subsurface FLOW simulation system and solves the governing flow, mass and heat transport equations in porous and fractured media by a multidimensional finite element method for complex geometric and parametric situations including variable fluid density, variable saturation, free surface, multispecies, reaction kinetics, non isothermal flow and multidiffusive effects. FEFLOW comprises theoretical work, modeling experiences and simulation practice from a period of about 40 years. In this light the main objective of the present book is to share this achieved level of modeling with all required details of the physical and numerical background with the reader. The book is intended to put advanced theoretical and numerical methods into the hands of modeling practitioners and scientists. It starts with a more general theory for all relevant flow and transport phenomena on the basis of the continuum approach.

systematically develops the basic framework for important classes of problems e g multiphase multispecies non isothermal flow and transport phenomena discrete features aquifer averaged equations geothermal processes introduces finite element techniques for solving the basic balance equations in detail discusses advanced numerical algorithms for the resulting nonlinear and linear problems and completes with a number of benchmarks applications and exercises to illustrate the different types of problems and ways to tackle them successfully e g flow and seepage problems unsaturated saturated flow advective diffusion transport saltwater intrusion geothermal and thermohaline flow

Variational, Incremental and Energy Methods in Solid Mechanics and Shell Theory J. Mason, 2013-10-22 Studies in Applied Mechanics 4 Variational Incremental and Energy Methods in Solid Mechanics and Shell Theory covers the subject of variational incremental and energy methods in Solid Mechanics and Shell Theory from a general standpoint employing general coordinates and tensor notations The publication first ponders on mathematical preliminaries kinematics and stress in three dimensional solid continua and the first and second laws of thermodynamics Discussions focus on the principles of virtual displacements and virtual forces kinematics of rigid body motions incremental stresses kinematics of incremental deformation description of motion coordinates reference and deformed states tensor formulas for surfaces and differentials and derivatives of operators The text then elaborates on constitutive material laws deformation and stress in shells first law of thermodynamics applied to shells and constitutive relations and material laws for shells Concerns cover hyperelastic incremental material relations material laws for thin elastic shells incremental theory and stability reduced and local forms of the first law of thermodynamics and description of deformation and motion in shells The book examines elastic stability finite element models variational and incremental principles variational principles of elasticity and shell theory and constitutive relations and material laws for shells The publication is a valuable reference for researchers interested in the variational incremental and energy methods in solid mechanics and shell theory

Inhomogeneous Waves In Solids And Fluids Giacomo Caviglia, Angelo Morro, 1992-10-09 The book may be viewed as an introduction to time harmonic waves in dissipative bodies notably viscoelastic solids and fluids The inhomogeneity of the waves which is due to the fact that planes of constant phase are not parallel to planes of constant amplitude is shown to be strictly related to the dissipativity of the medium A preliminary analysis is performed on the propagation of inhomogeneous waves in unbounded media and of reflection and refraction at plane interfaces Then emphasis is given to those features that are of significance for applications In essence they regard surface waves scattering by curved obstacles wave propagation in layered heterogeneous media and ray methods The pertinent mathematical techniques are discussed so as to make the book reasonably self contained

Collective Effects in Condensed Matter Physics Vladimir V. Kiselev, 2018-06-11 This monograph offers a concise overview of the theoretical description of various collective phenomena in condensed matter physics These effects include the basic electronic structure in solid state physics lattice vibrations superconductivity light matter interaction and more advanced

topics such as martensitic transitions **Thermodynamics** Mizutani Tadashi, 2011-01-14 Progress of thermodynamics has been stimulated by the findings of a variety of fields of science and technology The principles of thermodynamics are so general that the application is widespread to such fields as solid state physics chemistry biology astronomical science materials science and chemical engineering The contents of this book should be of help to many scientists and engineers

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