

MATHEMATICAL CONCEPTS AND METHODS
IN SCIENCE AND ENGINEERING

Series Editor: Angelo Miele

Volume 16

Mathematical Principles of Mechanics and Electromagnetism

Part A: Analytical and Continuum Mechanics

C.-C. Wang

Plenum Press - New York and London

Part A Analytical And Continuum Mechanics

Y.R. Talpaert



Part A Analytical And Continuum Mechanics:

Continuum Damage Mechanics Sumio Murakami, 2012-02-24 Recent developments in engineering and technology have brought about serious and enlarged demands for reliability safety and economy in wide range of fields such as aeronautics nuclear engineering civil and structural engineering automotive and production industry This in turn has caused more interest in continuum damage mechanics and its engineering applications This book aims to give a concise overview of the current state of damage mechanics and then to show the fascinating possibility of this promising branch of mechanics and to provide researchers engineers and graduate students with an intelligible and self contained textbook The book consists of two parts and an appendix Part I is concerned with the foundation of continuum damage mechanics Basic concepts of material damage and the mechanical representation of damage state of various kinds are described in Chapters 1 and 2 In Chapters 3 5 irreversible thermodynamics thermodynamic constitutive theory and its application to the modeling of the constitutive and the evolution equations of damaged materials are described as a systematic basis for the subsequent development throughout the book Part II describes the application of the fundamental theories developed in Part I to typical damage and fracture problems encountered in various fields of the current engineering Important engineering aspects of elastic plastic or ductile damage their damage mechanics modeling and their further refinement are first discussed in Chapter 6 Chapters 7 and 8 are concerned with the modeling of fatigue creep creep fatigue and their engineering application Damage mechanics modeling of complicated crack closure behavior in elastic brittle and composite materials are discussed in Chapters 9 and 10 In Chapter 11 applicability of the local approach to fracture by means of damage mechanics and finite element method and the ensuing mathematical and numerical problems are briefly discussed A proper understanding of the subject matter requires knowledge of tensor algebra and tensor calculus At the end of this book therefore the foundations of tensor analysis are presented in the Appendix especially for readers with insufficient mathematical background but with keen interest in this exciting field of mechanics Nonlinear Continuum Mechanics for Finite Element Analysis Javier

Bonet, Richard D. Wood, 1997-09-28 A unified treatment of nonlinear continuum analysis and finite element techniques

Tensor Analysis and Continuum Mechanics Wilhelm Flügge, 2013-11-11 Through several centuries there has been a lively interaction between mathematics and mechanics On the one side mechanics has used mathematics to formulate the basic laws and to apply them to a host of problems that call for the quantitative prediction of the consequences of some action On the other side the needs of mechanics have stimulated the development of mathematical concepts Differential calculus grew out of the needs of Newtonian dynamics vector algebra was developed as a means to describe force systems vector analysis to study velocity fields and force fields and the calculus of variations has evolved from the energy principles of mechanics In recent times the theory of tensors has attracted the attention of the mechanics people Its very name indicates its origin in the theory of elasticity For a long time little use has been made of it in this area but in the last decade its

usefulness in the mechanics of continuous media has been widely recognized While the undergraduate textbook literature in this country was becoming vectorized lagging almost half a century behind the development in Europe books dealing with various aspects of continuum mechanics took to tensors like fish to water Since many authors were not sure whether their readers were sufficiently familiar with tensors they either added a chapter on tensors or wrote a separate book on the subject

Modeling High Temperature Materials Behavior for Structural Analysis Konstantin Naumenko,Holm

Altenbach,2016-05-11 This monograph presents approaches to characterize inelastic behavior of materials and structures at high temperature Starting from experimental observations it discusses basic features of inelastic phenomena including creep plasticity relaxation low cycle and thermal fatigue The authors formulate constitutive equations to describe the inelastic response for the given states of stress and microstructure They introduce evolution equations to capture hardening recovery softening ageing and damage processes Principles of continuum mechanics and thermodynamics are presented to provide a framework for the modeling materials behavior with the aim of structural analysis of high temperature engineering components

Tensor Analysis and Continuum Mechanics Y.R. Talpaert,2002 This book is designed for students in engineering physics and mathematics The material can be taught from the beginning of the third academic year It could also be used for self study given its pedagogical structure and the numerous solved problems which prepare for modern physics and technology One of the original aspects of this work is the development together of the basic theory of tensors and the foundations of continuum mechanics Why two books in one Firstly Tensor Analysis provides a thorough introduction of intrinsic mathematical entities called tensors which is essential for continuum mechanics This way of proceeding greatly unifies the various subjects Only some basic knowledge of linear algebra is necessary to start out on the topic of tensors The essence of the mathematical foundations is introduced in a practical way Tensor developments are often too abstract since they are either aimed at algebraists only or too quickly applied to physicists and engineers Here a good balance has been found which allows these extremes to be brought closer together Though the exposition of tensor theory forms a subject in itself it is viewed not only as an autonomous mathematical discipline but as a preparation for theories of physics and engineering More specifically because this part of the work deals with tensors in general coordinates and not solely in Cartesian coordinates it will greatly help with many different disciplines such as differential geometry analytical mechanics continuum mechanics special relativity general relativity cosmology electromagnetism quantum mechanics etc

Worked Examples in Nonlinear Continuum Mechanics for Finite Element Analysis Javier Bonet,Antonio J. Gil,Richard D. Wood,2012-08-02 Many processes in materials science and engineering such as the load deformation behaviour of certain structures exhibit nonlinear characteristics The computer simulation of such processes therefore requires a deep understanding of both the theoretical aspects of nonlinearity and the associated computational techniques This book provides a complete set of exercises and solutions in the field of theoretical and computational nonlinear continuum mechanics and is

the perfect companion to Nonlinear Continuum Mechanics for Finite Element Analysis where the authors set out the theoretical foundations of the subject It employs notation consistent with the theory book and serves as a great resource to students researchers and those in industry interested in gaining confidence by practising through examples Instructors of the subject will also find the book indispensable in aiding student learning

Mathematical Modeling in Continuum Mechanics Roger Temam, Alain Miranville, 2005-05-19 Temam and Miranville present core topics within the general themes of fluid and solid mechanics The brisk style allows the text to cover a wide range of topics including viscous flow magnetohydrodynamics atmospheric flows shock equations turbulence nonlinear solid mechanics solitons and the nonlinear Schrödinger equation This second edition will be a unique resource for those studying continuum mechanics at the advanced undergraduate and beginning graduate level whether in engineering mathematics physics or the applied sciences Exercises and hints for solutions have been added to the majority of chapters and the final part on solid mechanics has been substantially expanded These additions have now made it appropriate for use as a textbook but it also remains an ideal reference book for students and anyone interested in continuum mechanics

Continuum Mechanics Fridtjov Irgens, 2008-01-10 This book presents an introduction into the entire science of Continuum Mechanics in three parts The presentation is modern and comprehensive Its introduction into tensors is very gentle The book contains many examples and exercises and is intended for scientists practitioners and students of mechanics

Continuum Mechanics with Eulerian Formulations of Constitutive Equations M.B. Rubin, 2020-10-11 This book focuses on the need for an Eulerian formulation of constitutive equations After introducing tensor analysis using both index and direct notation nonlinear kinematics of continua is presented The balance laws of the purely mechanical theory are discussed along with restrictions on constitutive equations due to superposed rigid body motion The balance laws of the thermomechanical theory are discussed and specific constitutive equations are presented for hyperelastic materials elastic inelastic materials thermoelastic inelastic materials with application to shock waves thermoelastic inelastic porous materials and thermoelastic inelastic growing biological tissues

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

Physics of Continuous Media G.E. Vekstein, 2020-11-26 This textbook is based on lectures and tutorials given for several years at the Physics Department of Novosibirsk State University It is constructed as a set of problems followed by detailed solutions and may act as a complementary text for standard courses on the physics of continuous media

Introduction to Continuum Mechanics David Rubin, Erhard Kreml, W Michael Lai, 2012-12-02 Continuum mechanics studies the response of materials to different

loading conditions The concept of tensors is introduced through the idea of linear transformation in a self contained chapter and the interrelation of direct notation indicial notation and matrix operations is clearly presented A wide range of idealized materials are considered through simple static and dynamic problems and the book contains an abundance of illustrative examples and problems many with solutions Through the addition of more advanced material solution of classical elasticity problems constitutive equations for viscoelastic fluids and finite deformation theory this popular introduction to modern continuum mechanics has been fully revised to serve a dual purpose for introductory courses in undergraduate engineering curricula and for beginning graduate courses *Continuum Mechanics and Theory of Materials* Peter Haupt,2013-03-14 The new edition includes additional analytical methods in the classical theory of viscoelasticity This leads to a new theory of finite linear viscoelasticity of incompressible isotropic materials Anisotropic viscoplasticity is completely reformulated and extended to a general constitutive theory that covers crystal plasticity as a special case **Fundamentals of Continuum Mechanics** John W. Rudnicki,2014-09-22 A concise introductory course text on continuum mechanics Fundamentals of Continuum Mechanics focuses on the fundamentals of the subject and provides the background for formulation of numerical methods for large deformations and a wide range of material behaviours It aims to provide the foundations for further study not just of these subjects but also the formulations for much more complex material behaviour and their implementation computationally This book is divided into 5 parts covering mathematical preliminaries stress motion and deformation balance of mass momentum and energy and ideal constitutive relations and is a suitable textbook for introductory graduate courses for students in mechanical and civil engineering as well as those studying material science geology and geophysics and biomechanics A concise introductory course text on continuum mechanics Covers the fundamentals of continuum mechanics Uses modern tensor notation Contains problems and accompanied by a companion website hosting solutions Suitable as a textbook for introductory graduate courses for students in mechanical and civil engineering *Continuum Mechanics for Engineers* G. Thomas Mase,Ronald E. Smelser,Jenn Stroud Rossmann,2020-05-01 A bestselling textbook in its first three editions Continuum Mechanics for Engineers Fourth Edition provides engineering students with a complete concise and accessible introduction to advanced engineering mechanics It provides information that is useful in emerging engineering areas such as micro mechanics and biomechanics Through a mastery of this volume s contents and additional rigorous finite element training readers will develop the mechanics foundation necessary to skillfully use modern advanced design tools Features Provides a basic understandable approach to the concepts mathematics and engineering applications of continuum mechanics Updated throughout and adds a new chapter on plasticity Features an expanded coverage of fluids Includes numerous all new end of chapter problems With an abundance of worked examples and chapter problems it carefully explains necessary mathematics and presents numerous illustrations giving students and practicing professionals an excellent self study guide to enhance their skills Mathematics Applied to Continuum Mechanics Lee A. Segel,2007-07-12

This classic work gives an excellent overview of the subject with an emphasis on clarity explanation and motivation Extensive exercises and a valuable section containing hints and answers make this an excellent text for both classroom use and independent study

Functional Analysis in Mechanics Leonid P. Lebedev, I. I. Vorovich, 2002-11-20 This is a self contained book that covers the foundations of functional analysis while introducing the essential topics of the chosen applications Graduate level students in mathematics and engineering will find the text useful

Continuum Mechanics of Anisotropic Materials Stephen C. Cowin, 2013-01-09 Continuum Mechanics of Anisotropic Materials CMAM presents an entirely new and unique development of material anisotropy in the context of an appropriate selection and organization of continuum mechanics topics These features will distinguish this continuum mechanics book from other books on this subject Textbooks on continuum mechanics are widely employed in engineering education however none of them deal specifically with anisotropy in materials For the audience of Biomedical Chemical and Civil Engineering students these materials will be dealt with more frequently and greater accuracy in their analysis will be desired Continuum Mechanics of Anisotropic Materials author has been a leader in the field of developing new approaches for the understanding of anisotropic materials

Continuum Mechanics Peter Chadwick, 1999-01-01 Written in response to the dearth of practical and meaningful textbooks in the field of fundamental continuum mechanics this comprehensive treatment offers students and instructors an immensely useful tool Its 115 solved problems and exercises not only provide essential practice but also systematically advance the understanding of vector and tensor theory basic kinematics balance laws field equations jump conditions and constitutive equations Readers follow clear formally precise steps through the central ideas of classical and modern continuum mechanics expressed in a common efficient notation that fosters quick comprehension and renders these concepts familiar when they reappear in other contexts Completion of this brief course results in a unified basis for work in fluid dynamics and the mechanics of solid materials a foundation of particular value to students of mathematics and physics those studying continuum mechanics at an intermediate or advanced level and postgraduate students in the applied sciences Should be excellent in its intended function as a problem book to accompany a lecture course Quarterly of Applied Math

Handbook of Continuum Mechanics Jean Salencon, 2012-12-06 The scale that concerns the practitioner in mechanics is usually qualified as macroscopic Indeed applications are rarely much below the human scale and in order to be relevant models must be constructed on a similar scale several orders of magnitude greater than the objects that are normally attributed to the physicist's sphere of interest The mechanist is therefore aware of the limits of these models no matter how elegant their mathematical formulation may be when the time comes for experimental validation The mechanist has a deep concern for the microscopic phenomena at the heart of what is being modelled exposed by the physicist's research which can today explain a wide range of material behaviour The aim of this book is to present the general ideas behind continuum mechanics thermoelasticity and one dimensional media Our approach to constructing mechanical models and modelling

forces is based upon the principle of virtual work. There are several advantages to this method. To begin with it clearly emphasises the key role played by geometrical modelling leading to mechanically consistent presentations in a systematic way. In addition by requiring rigorous thought and clear formulation of hypotheses it identifies the inductive steps and emphasises the need for validation despite its axiomatic appearance. Moreover once mastered it will serve as a productive tool in the reader's later research career. This duality is used in the chapter devoted to variational methods for the solution of thermoelastic problems.

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