

THE
MATHEMATICAL THEORY OF
PLASTICITY

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Problems Of The Mathematical Theory Of Plasticity Springer

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H.-D. Cheung, Franz-Josef Ulm**



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Existence Theory for Generalized Newtonian Fluids Dominic Breit, 2017-03-22 *Existence Theory for Generalized Newtonian Fluids* provides a rigorous mathematical treatment of the existence of weak solutions to generalized Navier-Stokes equations modeling non-Newtonian fluid flows. The book presents classical results, developments over the last 50 years of research, and recent results with proofs. Provides the state of the art of the mathematical theory of Generalized Newtonian fluids. Combines elliptic, parabolic, and stochastic problems within existence theory under one umbrella. Focuses on the construction of the solenoidal Lipschitz truncation, thus enabling readers to apply it to mathematical research. Approaches stochastic PDEs with a perspective uniquely suitable for analysis, providing an introduction to the Galerkin method for SPDEs and

tools for compactness Three-dimensional Problems of the Mathematical Theory of Elasticity and Thermoelasticity T. G. Gegelii□a□, 1979 **Regularity Theory for Generalized Navier-Stokes Equations** Cholmin Sin, Evgenii S.

Baranovskii, 2025-03-17 This book delves into the recent findings and research methods in the existence and regularity theory for Non Newtonian Fluids with Variable Power Law The aim of this book is not only to introduce recent results and research methods in the existence and regularity theory such as higher integrability higher differentiability and Holder continuity for flows of non Newtonian fluids with variable power laws but also to summarize much of the existing literature concerning these topics While this book mainly focuses on steady state flows of non Newtonian fluids the methods and ideas presented in this book can be applied to unsteady flows as discussed in Chapter 7 and other related problems such as complex non Newtonian fluids plasticity elasticity $p \times$ Laplacian type systems and so on The book is intended for researchers and graduate students in the field of mathematical fluid mechanics and partial differential equations with variable exponents It is expected to contribute to the advancement of mathematics and its applications *Stress Analysis of Deformable Solids*

Emil de Souza Sánchez Filho, 2026-04-14 This comprehensive textbook presents fundamental concepts and detailed analysis of stress in homogeneous and isotropic solids using a tensor approach This book uniquely formulates mathematical approaches in terms of stress tensor invariants and its component tensors hydrostatic tensor and deviator tensor All expressions are derived in the form of Cartesian tensors with detailed step by step deductions and complete demonstrations ensuring that no steps are omitted in obtaining or proving results Key features Demonstrates equations through didactic step by step deductions Features worked examples and end of chapter exercises Formulates innovative approaches using stress tensor invariants Develops expressions and demonstrations in detail without omitting steps Supports readers with essential tensor algebra explanations This book targets postgraduate as well as advanced undergraduate students in civil mechanical and materials engineering disciplines The detailed approach and comprehensive coverage equip readers with the knowledge necessary for applications across various fields making this book an invaluable resource for their academic and professional development *The Mathematical Theory of Plasticity* Rodney Hill, 1998 First published in 1950 this important and classic book presents a mathematical theory of plastic materials written by one of the leading exponents

Computational Methods in Applied Mathematics, 2007 *Finite Elasticity Theory* David J. Steigmann, 2017-08-25 Containing case studies and examples the book aims to cover extensive research particularly on surface stress and topics related to the variational approach to the subject and non standard topics such as the rigorous treatment of constraints and a full discussion of algebraic inequalities associated with realistic material behaviour and their implications Serving as an introduction to the basic elements of Finite Elasticity this textbook is the cornerstone for any graduate level on the topic while also providing a template for a host of theories in Solid Mechanics

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

Poromechanics III - Biot Centennial (1905-2005) Younane N. Aousleiman, Alexander H.-D. Cheung, Franz-Josef Ulm, 2005-05-01 These proceedings represent the latest advances in the mechanics of porous materials known as poromechanics The porous materials considered are solids containing voids that are impregnated with fluid The focus is on the mechanical interactions of the inhomogeneous solid with the single or multi phase fluid under the loading of mechanical force fluid pressure thermal chemical and magnetic fields The response time can be in static diffusional and dynamic ranges The length scale can start from nano to micro macro and up to field scales Its application covers many branches of science and engineering including geophysics geomechanics composite materials biomechanics acoustics seismicity civil mechanical environmental and petroleum engineering The approaches taken include analytical computational and experimental To honor the pioneering contributions of Maurice A Biot 1905 1985 to poromechanics the Biot Conference on Poromechanics was convened for the first time in Louvain la Neuve Belgium in 1998 The success of the first conference led to the 2nd Biot Conference held in Grenoble France in 2002 To celebrate the centennial birthday of Biot May 25 2005 the 3rd Biot Conference on Poromechanics was held at the University of Oklahoma Norman Oklahoma U S A on May 24 27 2005

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A Posteriori Estimates for Partial Differential Equations Sergey I. Repin, 2008 This book deals with the reliable verification of the accuracy of approximate solutions which is one of the central problems in modern applied analysis After giving an overview of the methods developed for models based on partial differential equations the author derives

computable a posteriori error estimates by using methods of the theory of partial differential equations and functional analysis These estimates are applicable to approximate solutions computed by various methods Theory of Elasticity and Plasticity Valentin Molotnikov, Antonina Molotnikova, 2021-04-12 This book serves as a core text for university curricula in solid body mechanics and at the same time examines the main achievements of state of the art research in the mechanics of elastic and non elastic materials This latter goal of the book is achieved through rich bibliographic references many from the authors own work authors Distinct from similar texts there are no claims in this volume to a single universal theory of plasticity However solutions are given to some new problems and to the construction of models useful both in pedagogic terms for students and practical terms for professional design engineers Examples include the authors decisions about the Brazilian test stability of rock exposure and pile foundations Designed for both upper level university students and specialists in the mechanics of deformable hard body the material in this book serves as a source for numerous topics of course and diploma concentration **SIAM Journal on Numerical Analysis** ,2002-12 Contents of Contemporary Mathematical Journals ,1974 **Finite Element Methods (Part 2), Numerical Methods for Solids (Part 2)** P.G. Ciarlet, Jacques-Louis Lions, 1990 Part of a series of volumes this work aims to cover all the major aspects of numerical analysis It covers the basic methods of analysis under headings including finite difference methods finite element methods techniques of scientific computing and numerical methods for fluids Journal of Numerical Mathematics ,2002 **Dynamics of Continuous, Discrete & Impulsive Systems** ,2001

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