

Fundamentals of the Theory of Plasticity

L. M. Kachanov

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Fundamentals of the Theory of Plasticity L. M. Kachanov, 2013-09-26 Intended for use by advanced engineering students and professionals this volume focuses on plastic deformation of metals at normal temperatures as applied to strength of machines and structures 1971 edition

Combined Loadings in the Theory of Plasticity Michal Zyczkowski, 1981-12-31

Nonlinear Problems of Elasticity Stuart Antman, 2013-03-14 The scientists of the seventeenth and eighteenth centuries led by Jas Bernoulli and Euler created a coherent theory of the mechanics of strings and rods undergoing planar deformations They introduced the basic concepts of strain both extensional and flexural of contact force with its components of tension and shear force and of contact couple They extended Newton's Law of Motion for a mass point to a law valid for any deformable body Euler formulated its independent and much subtler complement the Angular Momentum Principle Euler also gave effective variational characterizations of the governing equations These scientists breathed life into the theory by proposing formulating and solving the problems of the suspension bridge the catenary the elastica and the small transverse vibrations of an elastic string The level of difficulty of some of these problems is such that even today their descriptions are seldom vouchsafed to undergraduates The realization that such profound and beautiful results could be deduced by mathematical reasoning from fundamental physical principles furnished a significant contribution to the intellectual climate of the Age of Reason At first those who solved these problems did not distinguish between linear and nonlinear equations and so were not intimidated by the latter By the middle of the nineteenth century Cauchy had constructed the basic framework of three dimensional continuum mechanics on the foundations built by his eighteenth century predecessors

Micromechanics of Heterogeneous Materials Valeriy Buryachenko, 2007-09-20 Here is an accurate and timely account of micromechanics which spans materials science mechanical engineering applied mathematics technical physics geophysics and biology The book features rigorous and unified theoretical methods of applied mathematics and statistical physics in the material science of microheterogeneous media Uniquely it offers a useful demonstration of the systematic and fundamental research of the microstructure of the wide class of heterogeneous materials of natural and synthetic nature

Mechanics of Random and Multiscale Microstructures Dominique Jeulin, Martin Ostoja-Starzewski, 2014-05-04 This book reviews recent theoretical computational and experimental developments in mechanics of random and multiscale solid materials The aim is to provide tools for better understanding and prediction of the effects of stochastic non periodic microstructures on materials mesoscopic and macroscopic properties Particular topics involve a review of experimental techniques for the microstructure description a survey of key methods of probability theory applied to the description and representation of microstructures by random modes static and dynamic elasticity and nonlinear problems in random media via variational principles stochastic wave propagation Monte Carlo simulation of random continuous and discrete media fracture statistics models and computational micromechanics

Elastoplasticity Theory

Vlado A. Lubarda,2001-07-16 Understanding the elastoplastic deformation of metals and geomaterials including the constitutive description of the materials and analysis of structure undergoing plastic deformation is an essential part of the background required by mechanical civil and geotechnical engineers as well as materials scientists However most books address the su *Microstructural Randomness and Scaling in Mechanics of Materials* Martin Ostoja-Starzewski,2007-08-13 An area at the intersection of solid mechanics materials science and stochastic mathematics mechanics of materials often necessitates a stochastic approach to grasp the effects of spatial randomness Using this approach Microstructural Randomness and Scaling in Mechanics of Materials explores numerous stochastic models and methods used in the m ,

Mechanics of Deformable Solids Issam Doghri,2013-03-09 Three subjects of major interest in one textbook linear elasticity mechanics of structures in linear isotropic elasticity and nonlinear mechanics including computational algorithms After the simplest possible intuitive approach there follows the mathematical formulation and analysis with computational methods occupying a good portion of the book There are several worked out problems in each chapter and additional exercises at the end of the book plus mathematical expressions are very often given in more than one notation The book is intended primarily for students and practising engineers in mechanical and civil engineering although students and experts from applied mathematics materials science and other related fields will also find it useful **Continuum Mechanics and Theory of Materials** Peter Haupt,2013-04-17 This exposition of the theory of materials has its origins in the lectures I gave at the universities of Darmstadt and Kassel from 1978 onwards Research projects carried out during the same period have been the source of extensive refinements to the subject matter The reason for adding yet another book to the existing wealth of volumes dealing with continuum mechanics was my desire to describe the phenomenological theory of material properties from my own point of view As a result it is without doubt a subjectively inspired and incomplete work This particularly applies to the selection of quotations from the literature The text has been influenced and enhanced by the numerous discussions I had the privilege of holding with students and experts alike I should like to thank them all sincerely for their contributions and encouragement 1 My special thanks go to my academic teachers Rudolf Trostel and Hubertus 1 Weinitschke 2 whose stimulating lectures convinced me at the time that continuum mechanics is a field of science worth pursuing I greatly appreciate the long and amicable collaboration with Babis Tsakmakis and Manfred Korzen during which a number of indispensable fun damental aspects emerged Valuable inspiration regarding the development of the thermomechanical theory of materials was given by Roman Bonn Markus Horz Marc Kamlah and Alexander Lion It was Lion s skill that provided the link between the theoretical modelling and experimental investigation of material behaviour

Inelasticity Of Materials: An Engineering Approach And A Practical Guide Arun R Srinivasa,Sivakumar M Srinivasa,2009-07-09 With the advent of a host of new materials ranging from shape memory alloys to biomaterials to multiphase alloys acquiring the capacity to model inelastic behavior and to choose the right model in a commercial analysis

software has become a pressing need for practicing engineers. Even with the traditional materials there is a continued emphasis on optimizing and extending their full range of capability in the applications. This textbook builds upon the existing knowledge of elasticity and thermodynamics and allows the reader to gain confidence in extending one's skills in understanding and analyzing problems in inelasticity. By reading this textbook and working through the assigned exercises, the reader will gain a level of comfort and competence in developing and using inelasticity models. Thus, the book serves as a valuable book for practicing engineers and senior level undergraduate/graduate level students in the mechanical/civil/aeronautical/metallurgical and other disciplines. The book is written in three parts. Part I is primarily focused on lumped parameter models and simple structural elements such as trusses and beams. This is suitable for an advanced undergraduate class with just a strength of materials background. Part II is focused on small deformation multi-dimensional inelasticity and is suitable for a beginning graduate class. Sufficient material is included on how to numerically implement an inelastic model and solve either using a simple stress function type of approach or using commercial software. Case studies are included as examples. There is also an extensive discussion of thermodynamics in the context of small deformations. Part III focuses on more advanced situations such as finite deformation inelasticity, thermodynamical ideas, and crystal plasticity. More advanced case studies are included in this part. This textbook takes a new task or scenario based approach to teaching and learning inelasticity. The book is written in an active learning style that appeals to engineers and students who wish to design or analyze structures and components that are subject to inelasticity. The book incorporates thermodynamical considerations into the modeling right from an early stage. Extensive discussions are provided throughout the book on the thermodynamical underpinnings of the models. This textbook is the first to make extensive use of MATLAB to implement many inelasticity models. It includes the use of concepts such as Airy stress functions to solve plane problems for inelastic materials. The MATLAB codes are listed in the appendix for one to modify with their own models and requirements. Step by step procedures for formulations and calculations are provided for the reader to readily adapt to the inelastic problems that he or she attempts to solve. A large number of problems, exercises, and projects for one to teach or learn from are included. These can be assigned as homework, in class exercises, or projects. The book is written in a modular fashion which provides adequate flexibility for adaptation in classes that cater to different audiences such as senior level students, graduate students, research scholars, and practicing engineers.

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.

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 [Selected Problems of Solid Mechanics and Solving Methods](#) Holm Altenbach, Viacheslav Bogdanov, Alexander Ya. Grigorenko, Roman M. Kushnir, Vladimir M. Nazarenko, Victor A. Eremeyev, 2024-06-04 This book examines new approaches for the estimation of errors in approximate theories Numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them The problem is that nobody knows the boundaries of the estimation of errors in approximate theories This book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries These new methods are helping to solve many problems not only in analytical Mechanics but also in Physics Mathematics and Civil Engineering **NASA Technical Translation** ,1971 **Physico-Mathematical Theory of High Irreversible Strains in Metals** V.M. Greshnov, 2019-02-06 Presents a new physical and mathematical theory of irreversible deformations and ductile fracture of metals that acknowledges the continuous change in the structure of materials during deformation and the accumulation of deformation damage Plastic deformation viscous destruction evolution of structure creep processes and long term strength of metals and stress relaxation are described in the framework of a unified approach and model The author

then expands this into a mathematical model for determining the mechanical characteristics of quasi samples of standard mechanical properties in deformed semi finished products

The Strength and Creep of Frozen Soils and Calculations for Ice-soil Retaining Structures Sergeĭ Stepanovich Viĭaĭlov, 1965

Large-Scale Scientific Computing Ivan Lirkov, Svetozar D. Margenov, Jerzy Wasniewski, Yalamov Plamen, 2004-01-30 The papers in this volume were presented at the 4th International Conference on Large Scale Scientific Computations ICLSSC 2003 It was held in Sozopol Bulgaria June 4 8 2003 The conference was organized and sponsored by the Central Laboratory for Parallel Processing at the Bulgarian Academy of Sciences Support was also provided from the Center of Excellence BIS 21 funded by the European Commission SIAM and GAMM A co organizer of this traditional scientific meeting was the Division of Numerical Analysis and Statistics of the University of Rousse The success of the conference and the present volume in particular are the outcome of the joint efforts of many colleagues from various institutions and organizations First thanks to all the members of the Scientific Committee for their valuable contribution to forming the scientific face of the conference as well as for their help in reviewing contributed papers We would like to specially thank the organizers of the special sessions R Blaheta N Dimitrova A Ebel K Georgiev O Iliev A Karaivanova H Kosina M Krastanov U Langer P Minev M Neytcheva M Sch afer V Veliov and Z Zlatev We are also grateful to the staff involved in the local organization Special Events The conference was devoted to the 60th anniversary of Raytcho Lazarov During the conference the nomination for the World Level of the Hall of Fame for Engineering Science and Technology HOFEST was officially awarded to Owe Axelsson

Fundamentals of Structural Optimization (II) Vladimir Kobelev, 2024-09-14 This book provides a comprehensive overview of analytical methods for solving optimization problems covering principles and mathematical techniques alongside numerical solution routines including MAPLE and MAXIMA optimization routines Each method is explained with practical applications and ANSYS APDL scripts for select problems Chapters delve into topics such as scaling methods torsion compliance shape variation topological optimization anisotropic material properties and differential geometry Specific optimization problems including stress minimization and mass reduction under constraints are addressed The book also explores isoperimetric inequalities and optimal material selection principles Appendices offer insights into tensors differential geometry integral equations and computer algebra codes Overall it s a comprehensive guide for engineers and researchers in structural optimization

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

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