

NONLINEAR CONTINUUM MECHANICS FOR FINITE ELASTICITY-PLASTICITY

*Multiplicative Decomposition
with Subloading Surface Model*

Koichi HASHIGUCHI



Finite Elasticity

Y. B. Fu, R. W. Ogden



Finite Elasticity:

Finite Elasticity and Viscoelasticity Aleksey D. Drozdov, 1996-01-01 This book provides a systematic and self consistent introduction to the nonlinear continuum mechanics of solids from the main axioms to comprehensive aspects of the theory The objective is to expose the most intriguing aspects of elasticity and viscoelasticity with finite strains in such a way as to ensure mathematical correctness on the one hand and to demonstrate a wide spectrum of physical phenomena typical only of nonlinear mechanics on the other A novel aspect of the book is that it contains a number of examples illustrating surprising behaviour in materials with finite strains as well as comparisons between theoretical predictions and experimental data for rubber like polymers and elastomers The book aims to fill a gap between mathematicians specializing in nonlinear continuum mechanics and physicists and engineers who apply the methods of solid mechanics to a wide range of problems in civil and mechanical engineering materials science and polymer physics The book has been developed from a graduate course in applied mathematics which the author has given for a number of years *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 Topics in Finite Elasticity Morton E. Gurtin, 1981-09-01 This monograph presents a derivation of the basic equations of the theory of finite elasticity *Topics in Finite Elasticity* Michael Hayes, Giuseppe Saccomandi, 2001-06-19 More than fifty years ago Professor R S Rivlin pioneered developments in both the theory and experiments of rubber elasticity These together with his other fundamental studies contributed to a revitalization of the theory of finite elasticity which had been dormant since the basic understanding was completed in the nineteenth century This book with chapters on foundation models universal results wave propagation qualitative theory and phase transitions indicates that the subject he reinvigorated has remained remarkably vibrant and has continued to present significant deep mathematical and experimental challenges **Finite Elasticity** American Society of Mechanical Engineers. Applied Mechanics Division, 1977 Linear Theories of Elasticity and Thermoelasticity Clifford Truesdell, 2013-12-17 *Elasticity and Plasticity of Large Deformations* Albrecht Bertram, 2008-08-03 This book is based on the lecture notes of courses given by the author over the last decade at the Otto von Guericke University of Magdeburg and the Technical University of Berlin Since the author is concerned with researching material theory and in particular elastoplasticity these courses were intended to bring the students close to the frontiers of today's knowledge in this particular field an opportunity now offered also to the reader The reader should be familiar with vectors and matrices and with the basics of calculus and analysis Concerning mechanics the book starts right from the

ginning without assuming much knowledge of the subject Hence the text should be generally comprehensible to all engineers physicists mathematicians and others At the beginning of each new section a brief Comment on the Literature contains recommendations for further reading Throughout the text we quote only the important contributions to the subject matter We are far from being complete or exhaustive in our references and we apologise to any colleagues not mentioned in spite of their important contributions to the particular items It is intended to indicate any corrections to this text on our website <http://www.uni-magdeburg.de/ifme/1festigkeit/elastoplastik.html> along with remarks from the readers who are encouraged to send their frank criticisms comments and suggestions to bertram.mb@uni-magdeburg.de All the author's royalties from this issue will be donated to charitable organizations like Terres des Hommes

Mathematical Elasticity Philippe G. Ciarlet, 2022-01-22 The first book of a three volume set Three Dimensional Elasticity covers the modeling and mathematical analysis of nonlinear three dimensional elasticity It includes the known existence theorems either via the implicit function theorem or via the minimization of the energy John Ball's theory An extended preface and extensive bibliography have been added to highlight the progress that has been made since the volume's original publication While each one of the three volumes is self contained together the Mathematical Elasticity set provides the only modern treatise on elasticity introduces contemporary research on three dimensional elasticity the theory of plates and the theory of shells and contains proofs detailed surveys of all mathematical prerequisites and many problems for teaching and self study These classic textbooks are for advanced undergraduates first year graduate students and researchers in pure or applied mathematics or continuum mechanics They are appropriate for courses in mathematical elasticity theory of plates and shells continuum mechanics computational mechanics and applied mathematics in general

Nonlinear Elasticity Y. B. Fu, R. W. Ogden, 2001-05-07 Nonlinear elasticity is concerned with nonlinear effects associated with deformations of elastic bodies subjected to external forces or temperature variations It has important applications in many areas including the aerospace and rubber industries and biomechanics This book written by a group of leading researchers invited especially for the purpose provides an up to date and concise account of the fundamentals of the theory of nonlinear elasticity and a comprehensive review of several major current research directions in this important field It combines the characteristics of coherence and detail found in standard treatises with the strength and freshness of research articles The emphasis is placed firmly on coverage of modern topics and recent developments rather than on the very theoretical approach often found The book will be an excellent reference source for both beginners and specialists in engineering applied mathematics and physics It is also ideally suited for graduate courses

Hyperelasticity Primer Robert M. Hackett, 2018-03-31 This book introduces the subject of hyperelasticity in a concise manner mainly directed to students of solid mechanics who have a familiarity with continuum mechanics It focuses on important introductory topics in the field of nonlinear material behavior and presents a number of example problems and solutions to greatly aid the student in mastering the difficulty of the subject and gaining necessary insight Professor Hackett

delineates the concepts and applications of hyperelasticity in such a way that a new student of the subject can absorb the intricate details without having to wade through excessively complicated formulations The book further presents significant review material on intricately related subjects such as tensor calculus and introduces some new formulations

Mathematical Theory of Elastic and Elasto-Plastic Bodies J. Necas, I. Hlaváček, 2017-02-01 The book acquaints the reader with the basic concepts and relations of elasticity and plasticity and also with the contemporary state of the theory covering such aspects as the nonlinear models of elasto plastic bodies and of large deflections of plates unilateral boundary value problems variational principles the finite element method and so on

Three-Dimensional Elasticity, 1994-01-19 This volume is a thorough introduction to contemporary research in elasticity and may be used as a working textbook at the graduate level for courses in pure or applied mathematics or in continuum mechanics It provides a thorough description with emphasis on the nonlinear aspects of the two competing mathematical models of three dimensional elasticity together with a mathematical analysis of these models The book is as self contained as possible

Proceedings of the IUTAM Symposium on Finite Elasticity Donald E. Carlson, R.T. Shield, 2012-12-06 Although finite elasticity theory has its roots in the nineteenth century its development was largely neglected until the end of the Second World War Since then it has attracted a substantial amount of attention and considerable progress has been made both in our understanding of the basis of the subject and in its applications It occurred to me about three years ago that finite elasticity had reached a level of development at which an international symposium on the subject was overdue Accordingly with strong encouragement from Professor P M Naghdi and numerous other colleagues I submitted to the International Union of Theoretical and Applied Mechanics a proposal for their support of such a symposium to be held at Lehigh University during the period August 10 15 1980 The proposal received enthusiastic support from the International Union and an international scientific committee under my chairmanship consisting of Professors G Fichera Rome W T Koiter Delft L I Sedov Moscow and A J M Spencer Nottingham was assigned responsibility for the scientific program In constructing the program we aimed at as broad a coverage as possible of the many aspects of the subject on which significant progress is currently being made These range from theoretical studies of existence and uniqueness of solutions of the governing equations of finite elasticity theory to experimental studies of its application to such problems as tear resistance and friction in vulcanized rubbers

Algorithmic Learning Theory Ming Li, 1997-09-17 This book constitutes the strictly refereed post workshop proceedings of the Second International Workshop on Database Issues for Data Visualization held in conjunction with the IEEE Visualization 95 conference in Atlanta Georgia in October 1995 Besides 13 revised full papers the book presents three workshop subgroup reports summarizing the contents of the book as well as the state of the art in the areas of scientific data modelling supporting interactive database exploration and visualization related metadata The volume provides a snapshot of current research in the area and surveys the problems that must be addressed now and in the future towards the integration of

database management systems and data visualization Algorithmic Learning Theory Yoav Freund, 2008-09-29 This book constitutes the refereed proceedings of the 19th International Conference on Algorithmic Learning Theory ALT 2008 held in Budapest Hungary in October 2008 co located with the 11th International Conference on Discovery Science DS 2008 The 31 revised full papers presented together with the abstracts of 5 invited talks were carefully reviewed and selected from 46 submissions The papers are dedicated to the theoretical foundations of machine learning they address topics such as statistical learning probability and stochastic processes boosting and experts active and query learning and inductive inference **Boundary Value Problems of Finite Elasticity** Tullio Valent, 2013-03-07 In this book I present in a systematic form some local theorems on existence uniqueness and analytic dependence on the load which I have recently obtained for some types of boundary value problems of finite elasticity Actually these results concern an n dimensional $n \geq 1$ formal generalization of three dimensional elasticity Such a generalization besides being quite spontaneous allows us to consider a great many interesting mathematical situations and sometimes allows us to clarify certain aspects of the three dimensional case Part of the matter presented is unpublished other arguments have been only partially published and in lesser generality Note that I concentrate on simultaneous local existence and uniqueness thus I do not deal with the more general theory of existence Moreover I restrict my discussion to compressible elastic bodies and I do not treat unilateral problems The clever use of the inverse function theorem in finite elasticity made by STOPPELLI 1954 1957a 1957b in order to obtain local existence and uniqueness for the traction problem in hyperelasticity under dead loads inspired many of the ideas which led to this monograph Chapter I aims to give a very brief introduction to some general concepts in the mathematical theory of elasticity in order to show how the boundary value problems studied in the sequel arise Chapter II is very technical it supplies the framework for all subsequent developments **Nonlinear Continuum Mechanics for Finite Elasticity-Plasticity** Koichi Hashiguchi, 2020-06-19 Nonlinear Continuum Mechanics for Finite Elasticity Plasticity empowers readers to fully understand the constitutive equation of finite strain an essential piece in assessing the deformation strength of materials and safety of structures The book starts by providing a foundational overview of continuum mechanics elasticity and plasticity then segues into more sophisticated topics such as multiplicative decomposition of deformation gradient tensor with the isoclinic concept and the underlying subloading surface concept The subloading surface concept insists that the plastic strain rate is not induced suddenly at the moment when the stress reaches the yield surface but it develops continuously as the stress approaches the yield surface which is crucially important for the precise description of cyclic loading behavior Then the exact formulations of the elastoplastic and viscoplastic constitutive equations based on the multiplicative decomposition are expounded in great detail The book concludes with examples of these concepts and modeling techniques being deployed in real world applications Table of Contents 1 Mathematical Basics 2 General Curvilinear Coordinate System 3 Description of Deformation Rotation in Convected Coordinate System 4 Deformation

Rotation Rate Tensors 5 Conservation Laws and Stress Tensors 6 Hyperelastic Equations 7 Development of Elastoplastic Constitutive Equations 8 Multiplicative Decomposition of Deformation Gradient Tensor 9 Multiplicative Hyperelastic based Plastic and Viscoplastic Constitutive Equations 10 Friction Model Finite Sliding Theory Covers both the fundamentals of continuum mechanics and elastoplasticity while also introducing readers to more advanced topics such as the subloading surface model and the multiplicative decomposition among others Approaches finite elastoplasticity and viscoplasticity theory based on multiplicative decomposition and the subloading surface model Provides a thorough introduction to the general tensor formulation details for the embedded curvilinear coordinate system and the multiplicative decomposition of the deformation gradient

Grammatical Inference: Algorithms and Applications Alexander Clark, François Coste, Laurent Miclet, 2008-09-22 This book constitutes the refereed proceedings of the 9th International Colloquium on Grammatical Inference ICGI 2008 held in Saint Malo France in September 2008 The 21 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 36 submissions The topics of the papers presented vary from theoretical results of learning algorithms to innovative applications of grammatical inference and from learning several interesting classes of formal grammars to applications to natural language processing

Theoretical, Experimental, and Numerical Contributions to the Mechanics of Fluids and Solids James Casey, Marcel J. Crochet, 2012-12-06 This special issue of ZAMP is published to honor Paul M Naghdi for his contributions to mechanics over the last forty years and more It is offered in celebration of his long productive career in continuum mechanics a career which has been marked by a passion for the intrinsic beauty of the subject an uncompromising adherence to academic standards and an untiring devotion to our profession Originally this issue was planned in celebration of Naghdi's 70th birthday which occurred on 29 March 1994 But as the papers were being prepared for the press it became evident that the illness from which Professor Naghdi had been suffering during recent months was extremely serious On 26 May 1994 a reception took place in the Department of Mechanical Engineering at Berkeley at which Naghdi received The Berkeley Citation which is given in lieu of an honorary degree and where he was also presented with the Table of Contents of the present collection Subsequently he had the opportunity to read the papers in manuscript form He was very touched that his colleagues had chosen to honor him with their fine contributions The knowledge that he was held in such high esteem by his fellow scientists brought a special pleasure and consolation to him in his last weeks On Saturday evening 9 July 1994 Paul Naghdi succumbed to the lung cancer which he had so courageously endured

Applied Mechanics Reviews, 1974

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