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Introduction to
FINITE STRAIN THEORY
for CONTINUUM
ELASTO-PLASTICITY

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Introduction To Finite Strain Theory For Continuum Elasto Plasticity

Koichi Hashiguchi



Introduction To Finite Strain Theory For Continuum Elasto Plasticity:

Introduction to Finite Strain Theory for Continuum Elasto-Plasticity Koichi Hashiguchi, Yuki Yamakawa, 2012-10-09

Comprehensive introduction to finite elastoplasticity addressing various analytical and numerical analyses including state of the art theories Introduction to Finite Elastoplasticity presents introductory explanations that can be readily understood by readers with only a basic knowledge of elastoplasticity showing physical backgrounds of concepts in detail and derivation processes of almost all equations The authors address various analytical and numerical finite strain analyses including new theories developed in recent years and explain fundamentals including the push forward and pull back operations and the Lie derivatives of tensors As a foundation to finite strain theory the authors begin by addressing the advanced mathematical and physical properties of continuum mechanics They progress to explain a finite elastoplastic constitutive model discuss numerical issues on stress computation implement the numerical algorithms for stress computation into large deformation finite element analysis and illustrate several numerical examples of boundary value problems Programs for the stress computation of finite elastoplastic models explained in this book are included in an appendix and the code can be downloaded from an accompanying website [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 Elastoplasticity Theory Koichi Hashiguchi,2013-07-16 This book was written to serve as the standard textbook of elastoplasticity for students engineers and researchers in the field of applied mechanics The present second edition is improved thoroughly from the first edition by selecting the standard theories from various formulations and models which are required to study the essentials of elastoplasticity steadily and effectively and will remain universally in the history of elastoplasticity It opens with an explanation of vector tensor analysis and continuum mechanics as a foundation to study elastoplasticity theory extending over various strain and stress tensors and their rates Subsequently constitutive equations of elastoplastic and viscoplastic deformations for monotonic cyclic and non proportional loading behavior in a general rate and their applications to metals and soils are described in detail and constitutive equations of friction behavior between solids and its application to the prediction of stick slip phenomena are delineated In addition the return mapping algorithm the consistent tangent operators and the objective time integration algorithm of rate tensor are explained in order to enforce the FEM analyses All the derivation processes and formulations of equations are described in detail without an abbreviation throughout the book The distinguishable features and importance of this book is the comprehensive description of fundamental concepts and formulations including the objectivity of tensor and constitutive equations the objective time derivative of tensor functions the associated flow rule the loading criterion the continuity and smoothness conditions and their substantial physical interpretations in addition to the wide classes of reversible irreversible constitutive equations of solids and friction behavior between solids

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 Nonlinear Computational Mechanics P. Wriggers, W. Wagner (PD Dr.-Ing. habil.), 1991 The field of Computational Mechanics has grown very rapidly during the last decade This is due to the fact that modern engineering design needs complex models which can only be analyzed and simulated on powerful computers and workstations using numerical methods like finite element boundary element or finite difference techniques This volume presents an overview of current research areas representing the state of the art in the field of nonlinear computational mechanics The areas considered in more detail include the mathematical theory and numerical algorithms nonlinear finite element procedures boundary element techniques beam plate and shell formulations inelastic constitutive models and contact formulations The reader who is new in the field will get a fresh insight in current research areas which are of worldwide interest For the reader who is already working in the field of Computational Mechanics this volume presents aspects concerning the latest developments within this area *Non-Linear Finite Element Analysis of Solids and Structures, Advanced Topics* M. A. Crisfield, 1991 Non linear Finite Element Analysis of Solids and Structures Volume 2 Advanced Topics M A Crisfield Imperial College of Science Technology and Medicine London UK In such fields as aeronautical civil mechanical and structural engineering non linear analysis techniques are becoming widely used for the solution of practical engineering problems Taking an engineering rather than a mathematical bias this comprehensive book builds on the fundamental ideas explained in Volume One introducing the reader to more detailed advanced topics Large strains and large rotations plasticity with a range of yield criteria and hardening rules stability theory and advanced solution procedures including branch switching techniques contact and friction and nonlinear dynamics are covered in depth Examples from a non linear finite element computer program incorporating the advanced solution procedures are included The computer program is available on the Internet via anonymous ftp using the URL <ftp://ftp.cc.ic.ac.uk/pub/depts/aero/nonlin2> *Continuum Theory of Plasticity* Akhtar S. Khan, Sujian Huang, 1995-02-28 The only modern up to date introduction to plasticity Despite phenomenal progress in plasticity research over the past fifty years introductory books on plasticity have changed very little To meet the need for an up to date introduction to the field Akhtar S Khan and Sujian Huang have written Continuum Theory of Plasticity a truly modern text which offers a continuum mechanics approach as well as a lucid presentation of the essential classical contributions The early chapters give the reader a review of elementary concepts of plasticity the necessary background material on continuum mechanics and a discussion of the classical theory of plasticity Recent developments in the field are then explored in sections on the Mroz Multisurface model the Dafalias and Popov Two Surface model the non linear kinematic hardening model the endochronic theory of plasticity and numerous topics in finite deformation plasticity theory and strain space formulation for plastic deformation Final chapters introduce the fundamentals of the micromechanics of plastic deformation and the analytical coupling between deformation of individual crystals and macroscopic material response of the polycrystal aggregate For graduate students and researchers in engineering mechanics mechanical civil and

aerospace engineering Continuum Theory of Plasticity offers a modern comprehensive introduction to the entire subject of plasticity **Finite Inelastic Deformations – Theory and Applications** International Union of Theoretical and Applied Mechanics,1992-11-27 Very Good No Highlights or Markup all pages are intact **Computational Plasticity** D. R. J. Owen,Ernest Hinton,E. Oñate,1989 **JSME International Journal** ,1992 *Damage Mechanics: Theory, Computation and Practice* Khemais Saanouni,2015-08-18 Selected peer reviewed papers from the 2nd International Conference on Damage Mechanics ICDM2 July 8 11 2015 Troyes France *Continuum Models of Discrete Systems 4* Olof Brulin,Richard Kin Tchang Hsieh,1981 **Theoretical and Applied Mechanics** Warner Tjardus Koiter,1977 Proceedings of the 1st 12th Congress are entered under International Congress of Applied Mechanics Journal of Applied Mechanics ,1993 *Theoretical and Applied Mechanics* ,1977 Computational Aspects of an Implicit Finite Element Procedure for Elasto-viscoplastic Large Deformation Problems Abul Fazal Muhammad Arif,1991 **Finite Element Handbook** Hayrettin Kardestuncer,1987 **Courses and Degrees** Stanford University,1993 *Proceedings of the ASME Applied Mechanics Division* ,2005 *Computational Mechanics for the Next Millennium: Solid mechanics and fluid mechanics* C. M. Wang,K. H. Lee,K. K. Ang,1999

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