

Koichi Hashiguchi

Elastoplasticity Theory

Second Edition



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Elastoplasticity Theory

W.P. Shen, Jin Quan Xu



Elastoplasticity Theory:

Elastoplasticity Theory Koichi Hashiguchi, 2009-05-02 Contents Recent advancements in the performance of industrial products and structures are quite intense. Consequently, mechanical design of high accuracy is necessary to enhance their mechanical performance, strength, and durability. The basis for their mechanical design can be provided through elastoplastic deformation analyses. For that reason, industrial engineers in the fields of mechanical, civil, architectural, aerospace engineering, etc., must learn pertinent knowledge relevant to elastoplasticity. Numerous books about elastoplasticity have been published since Mathematical Theory of Plasticity, the notable book of R. Hill, 1950, was written in the middle of the last century. That and similar books mainly address conventional plasticity models on the premise that the interior of a yield surface is an elastic domain. However, conventional plasticity models are applicable to the prediction of monotonic loading behavior but are inapplicable to prediction of deformation behavior of machinery subjected to cyclic loading and civil or architectural structures subjected to earthquakes. Elastoplasticity has developed to predict deformation behavior under cyclic loading and non-proportional loading and to describe nonlocal, finite, and rate-dependent deformation behavior. **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 subject. *Foundations of Elastoplasticity: Subloading Surface Model* Koichi Hashiguchi, 2023-06-12 This book is the standard textbook for elastoplasticity and viscoplasticity, which is explained comprehensively, covering the rate-independent to rate-dependent finite deformations of metals, soils, polymers, crystal plasticity, etc., and the friction phenomenon. Concise explanations on vector/tensor analysis and continuum mechanics are provided, first covering the underlying physical concepts, e.g., various time derivatives, pull-back and push-forward operations, work conjugacy, and multiplicative decomposition of deformation gradient tensor. Then, the rigorous elastoplastic viscoplastic model called the subloading surface model is explained comprehensively, which is based on the subloading surface concept to describe the continuous development of the plastic viscoplastic strain rate as the stress approaches the yield surface, while it can never be described by the other plasticity models, e.g., the Chaboche, Ohno, and the Dafalias-Yoshida models assuming the purely elastic domain. The main features of the subloading surface model are as follows: 1. The subloading surface concept underlying the cyclic plasticity is introduced, which insists that the plastic deformation develops as the stress approaches the yield surface. Thus, the smooth elastic-plastic transition leading to the continuous variation of the tangent stiffness modulus is described. 2. The subloading overstress model is formulated, by which the elastoplastic deformation during the quasi-static loading and the viscoplastic deformation during the dynamic and impact loading can be described by the unified equation. Then, only this model can be used to describe the deformation in the general rate of deformation, disusing the elastoplastic constitutive

equation 3 The hyperelastic based visco plasticity based on the multiplicative decomposition of deformation gradient tensor and the subloading surface model is formulated for the exact descriptions of the finite elastic and visco plastic deformations 4 The subloading friction model is formulated for the exact description of the dry and the fluid lubricated frictions at the general rate of sliding from the static to the impact sliding Thus all the elastic and inelastic deformation sliding phenomena of solids can be described accurately in the unified equation by the subloading overstress model The subloading surface model will be engraved as the governing law of irreversible deformation of solids in the history of solid mechanics

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 [Mathematics and Mechanics of Granular Materials](#)

James M. Hill, A.P.S. Selvadurai, 2005-12-27 Granular or particulate materials arise in almost every aspect of our lives including many familiar materials such as tea coffee sugar sand cement and powders At some stage almost every industrial process involves a particulate material and it is usually the cause of the disruption to the smooth running of the process In the natural environment understanding the behaviour of particulate materials is vital in many geophysical processes such as earthquakes landslides and avalanches This book is a collection of current research from some of the major contributors in the topic of modelling the behaviour of granular materials Papers from every area of current activity are included such as theoretical numerical engineering and computational approaches This book illustrates the numerous diverse approaches to one of the outstanding problems of modern continuum mechanics **Elastoplastic Behavior of**

Highly Ductile Materials Maosheng Zheng, Zhifu Yin, Haipeng Teng, Jiaojiao Liu, Yi Wang, 2019-10-19 This book mainly introduces some basic phenomena and laws of highly ductile materials during elastoplastic deformation and their engineering applications such as the transfer and relief of stress concentration in the notch root the mitigation of possible brittle fracture the ductile deformation and damage fatigue energy absorption plastic buckling thermal stress problems etc It

shows a number of revolutions in modern applications and design which are beneficial to the safety of modern equipment and improve applicability In addition the first three chapters of this book also briefly introduce the basic knowledge of elastoplastic deformation and analysis as a preliminary knowledge This book can be used as a textbook for advanced undergraduate students and postgraduate in non mechanics majors such as mechanical engineering power material or civil engineering as well as scholars and engineers in related fields

Plasticity Weimin Han,B. Daya Reddy,2012-11-19 This book focuses on the theoretical aspects of small strain theory of elastoplasticity with hardening assumptions It provides a comprehensive and unified treatment of the mathematical theory and numerical analysis It is divided into three parts with the first part providing a detailed introduction to plasticity the second part covering the mathematical analysis of the elasticity problem and the third part devoted to error analysis of various semi discrete and fully discrete approximations for variational formulations of the elastoplasticity This revised and expanded edition includes material on single crystal and strain gradient plasticity In addition the entire book has been revised to make it more accessible to readers who are actively involved in computations but less so in numerical analysis Reviews of earlier edition The authors have written an excellent book which can be recommended for specialists in plasticity who wish to know more about the mathematical theory as well as those with a background in the mathematical sciences who seek a self contained account of the mechanics and mathematics of plasticity theory ZAMM 2002 In summary the book represents an impressive comprehensive overview of the mathematical approach to the theory and numerics of plasticity Scientists as well as lecturers and graduate students will find the book very useful as a reference for research or for preparing courses in this field Technische Mechanik The book is professionally written and will be a useful reference to researchers and students interested in mathematical and numerical problems of plasticity It represents a major contribution in the area of continuum mechanics and numerical analysis Math Reviews

Instabilities Modeling in Geomechanics Ioannis Stefanou,Jean Sulem,2021-03-12 Instabilities Modeling in Geomechanics describes complex mechanisms which are frequently met in earthquake nucleation geothermal energy production nuclear waste disposal and CO2 sequestration These mechanisms involve systems of non linear differential equations that express the evolution of the geosystem e g strain localization temperature runaway pore pressure build up etc at different length and time scales In order to study the evolution of a system and possible instabilities it is essential to know the mathematical properties of the governing equations Therefore questions of the existence uniqueness and stability of solutions naturally arise This book particularly explores bifurcation theory and stability analysis which are robust and rigorous mathematical tools that allow us to study the behavior of complex geosystems without even explicitly solving the governing equations The contents are organized into 10 chapters which illustrate the application of these methods in various fields of geomechanics

Mechanics of Solids and Materials Robert Asaro,Vlado A. Lubarda,2006-01-16 This 2006 book combines modern and traditional solid mechanics topics in a coherent theoretical framework

Applied Mechanics

Reviews ,1978 **Advances in Engineering Plasticity and Its Applications** W.P. Shen,Jin Quan Xu,2004-10-15
Proceedings of the 7th Asia Pacific Symposium on Engineering Plasticity and Its Applications AEPA 2004 22 26 September
2004 Shanghai China P R **Analysis of Strain-softening Behavior of Soil** John F. Peters,Daniel A. Leavell,1982

Elasticity and Plasticity of Large Deformations Albrecht Bertram,2021-04-07 This book presents an introduction to material theory and in particular to elasticity plasticity and viscoelasticity to bring the reader close to the frontiers of today's knowledge in these particular fields It starts right from the beginning without assuming much knowledge of the subject Hence the book is 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 This book includes an updated reference list and over 100 changes throughout the book It contains the latest knowledge on the subject Two new chapters have been added in this new edition Now finite viscoelasticity is included and an Essay on gradient materials which have recently drawn much attention **Elasto-Plasticity of Frame Structure Elements** Andreas Öchsner,2014-08-13 The finite element method is a powerful tool even for non linear materials modeling But commercial solutions are limited and many novel materials do not follow standard constitutive equations on a macroscopic scale Thus is it required that new constitutive equations are implemented into the finite element code However it is not sufficient to simply implement only the equations but also an appropriate integration algorithm for the constitutive equation must be provided This book is restricted to one dimensional plasticity in order to reduce and facilitate the mathematical formalism and theory and to concentrate on the basic ideas of elasto plastic finite element procedures A comprehensive set of completely solved problems is designed for the thorough understand of the presented theory After working with this new book and reviewing the provided solved and supplementary problems it should be much easier to study and understand the advanced theory and the respective text books

Advances in Mathematical Modeling and Experimental Methods for Materials and Structures Rivka Gilat,Leslie Banks-Sills,2009-12-18 This collection of cutting edge papers written by leading authors in honor of Professor Jacob Aboudi covers a wide spectrum of topics in the field presents both theoretical and experimental approaches and suggests directions for possible future research **Advances in Marine Structures** Carlos Guedes Soares,Wolfgang Fricke,2011-03-14 In recent years significant advances have been made in the development of methods and modeling procedures for structural assessment of marine structures Various assessment methods are incorporated in the methods used to analyze and design efficient ship structures as well as in the methods of structural reliability to be used to ensure the safety Transactions of the ... Army Conference on Applied Mathematics and Computing ,1986 **Microindentation Techniques in Materials**

Science and Engineering P. J. Blau,1986 A Course on Plasticity Theory David J. Steigmann,2023-01-20 Plasticity Theory is characterized by many competing and often incompatible points of view This book seeks to strengthen the foundations of continuum plasticity theory emphasizing a unifying perspective grounded in the fundamental notion of

material symmetry Steigmann's book offers a systematic framework for the proper understanding of established models of plasticity and for their modern extensions and generalizations Particular emphasis is placed on the differential geometric aspects of the subject and their role in illuminating the conceptual foundations of plasticity theory Classical models together with several subjects of interest in contemporary research are developed in a unified format The book is addressed to graduate students and academics working in the field of continuum mechanics

Metal Matrix Composites W. Steven Johnson, 1989 Fourteen peer reviewed papers on testing techniques analysis approaches and descriptions of various failure processes From the Symposium on title held at Sparks NV April 1988 Annotation copyright Book News Inc Portland Or

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web background poe dameron is the son of kes dameron and shara bey a married couple of rebel alliance fighters who fought in the battle of endor to destroy the galactic empire s second death star introduced in the 2015 marvel comics mini series star wars shattered empire kes dameron was a rebel trooper who took part in the destruction of the shield

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web zorii bliss pictured offered poe dameron the chance to overthrow her mother zeva and control the spice runners at her side poe and zorii s friendship was strained after he found out zeva was zorii s mother they finally made it to kijimi and met with the droidsmith babu frik who rebuilt ev 6b6