

IUTAM SYMPOSIUM HANNOVER/GERMANY 1991

D. Besdo · E. Stein (Eds.)

**Finite Inelastic Deformations –  
Theory and Applications**



Springer-Verlag

# Finite Inelastic Deformations

**Dieter Besdo**



## **Finite Inelastic Deformations:**

**Plasticity** S. Nemat-Nasser, 2004-11-29 Publisher Description      **Finite Inelastic Deformations – Theory and Applications** Dieter Besdo, Erwin Stein, 2013-03-08 The IUTAM Symposium on Finite Inelastic Deformations Theory and Applications took place from August 19 to 23 1991 at the University of Hannover Germany with 75 participants from 14 countries Scope of the symposium was a fundamental treatment of new developments in plasticity and visco plasticity at finite strains This covered the phenomenological material theory based on continuum mechanics as well as the treatment of microstructural phenomena detected by precise experimental datas In a restricted number lectures on new experimental facilities for measuring finite strains were also implemented into the symposium Another important topic of the symposium was the treatment of reliable and effective computational methods for solving engineering problems with finite inelastic strains Within this context it was an essential feature that theory numerical and computational analysis were seen in an integrated way In total 9 sessions with 37 lectures many of them given by well known keynote lecturers and a poster session with 10 contributions met fully our expectations of a high ranking up to date forum for the interaction of four topics namely the physical and mathematical modelling of finite strain inelastic deformations including localizations and damage as well as the achievements in the numerical analysis and implementation and the solution of complicated engineering systems Special and important features were reliable material datas from macroscopic and microscopic tests as well as test results of complex engineering problems like deep drawing and extrusion      **Finite Inelastic Deformations** Dieter Besdo, 1992

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      *Anisotropy and Localization of Plastic Deformation* J.P. Boehler, Akhtar S.

Khan, 2012-12-06 Present developments in materials science mechanics and engineering as well as the demands of modern technology result in a new and growing interest in plasticity and in bordering domains of the mechanical behavior of materials This growing interest is attested to by the success of both The International Journal of Plasticity which after its inception rapidly became the leading journal for plasticity research and the series of International Symposia on Plasticity and Its Current Applications which is now the premier international forum for plasticity research dissemination The First International Symposium on Plasticity and Its Current Applications was conceived and organized by Professor Akhtar S Khan

and was held at the University of Oklahoma Norman Oklahoma USA from July 30 to August 3 1984 It was attended by over one hundred scientists from fifteen countries Plasticity 89 the Second International Symposium on Plasticity and Its Current Applications was held at Mie University Tsu Japan from July 31 to August 4 1989 this symposium was co chaired by Professors Khan and Tokuda The main emphasis of this meeting was on dynamic plasticity and micromechanics although it included other aspects of plasticity as well It was attended by over two hundred researchers from twenty three nations

*Special Issue on Inelastic Deformation and Failure Modes*, 1985      *Inelastic Deformation of Metals* Donald C. Stouffer, L. Thomas Dame, 1996-01-05 Using a totally new approach this groundbreaking book establishes the logical connections between metallurgy materials modeling and numerical applications In recognition of the fact that classical methods are inadequate when time effects are present or when certain types of multiaxial loads are applied the new physically based state variable method has evolved to meet these needs *Inelastic Deformation of Metals* is the first comprehensive presentation of this new technology in book form It develops physically based numerically efficient and accurate methods for predicting the inelastic response of metals under a variety of loading and environmental conditions More specifically *Inelastic Deformation of Metals* Demonstrates how to use the metallurgical information to develop material models for structural simulations and low cyclic fatigue predictions It presents the key features of classical and state variable modeling describes the different types of models and their attributes and provides methods for developing models for special situations This book's innovative approach covers such new topics as multiaxial loading thermomechanical loading and single crystal superalloys Provides comparisons between data and theory to help the reader make meaningful judgments about the value and accuracy of a particular model and to instill an understanding of how metals respond in real service environments Analyzes the numerical methods associated with nonlinear constitutive modeling including time independent time dependent numerical procedures time integration schemes inversion techniques and sub incrementing *Inelastic Deformation of Metals* is designed to give the professional engineer and advanced student new and expanded knowledge of metals and modeling that will lead to more accurate judgments and more efficient designs In contrast to existing plasticity books which discuss few if any correlations between data and models this breakthrough volume shows engineers and advanced students how materials and models actually do behave in real service environments As greater demands are placed on technology the need for more meaningful judgments and more efficient designs increases dramatically Incorporating the state variable approach *Inelastic Deformation of Metals* Provides an overview of a wide variety of metal response characteristics for rate dependent and rate independent loading conditions Shows the correlations between the mechanical response properties and the deformation mechanisms and describes how to use this information in constitutive modeling Presents different modeling options and discusses the usefulness and limitations of each modeling approach with material parameters for each model Offers numerous examples of material response and correlation with model predictions for many alloys Shows how to implement nonlinear

material models in stand alone constitutive model codes and finite element codes An innovative comprehensive and essential book *Inelastic Deformation of Metals* will help practicing engineers and advanced students in mechanical aerospace civil and metallurgical engineering increase their professional skills in the modern technological environment *The Stress State Dependence of Finite Inelastic Deformation Behavior of F.C.C. Polycrystalline Materials* Samuel Graham (Jr.), 1995

**Viscoplastic Flow in Solids Produced by Shear Banding** Ryszard B. Pecherski, 2022-05-31 **VISCOPLASTIC FLOW IN SOLIDS PRODUCED BY SHEAR BANDING** A complete overview of the topic of viscoplastic flow in solids produced by shear banding This book presents novel ideas about inelastic deformation and failure of solids in a clear concise manner It exposes readers to information that will allow them to acquire the competence and ability to deal with up to date manufacturing and failure processes It also portrays a new understanding of deformation processes Finally shear banding s typical mechanism becomes the active cause of viscoplastic flow and not the passive effect *Viscoplastic Flow in Solids Produced by Shear Banding* begins by discussing the new physical model of multilevel hierarchy and the evolution of micro shear bands In conclusion it examines the difficulties of applying a direct multiscale integration scheme and extends the representative volume element RVE concept using the general theory of the singular surfaces of the microscopic velocity field sweeping out the RVE This book reveals a new formulation of the shear strain rate generated by the consecutive systems of shear bands in the workflow integration approach This book Presents fresh ideas about inelastic deformation and failure of materials Provides readers with the ability to deal with up to date manufacturing and failure processes Sheds light on the interdisciplinary view of deformation processes in solids *Viscoplastic Flow in Solids Produced by Shear Banding* will appeal to researchers studying physical foundations of inelastic behaviour and failure of solid materials dealing with analysis and numerical simulations of manufacturing forming processes It is also an excellent resource for graduate and postgraduate students of material science and mechanical engineering faculties *Micromechanics of Composite Materials* Jacob Aboudi, Steven M. Arnold, Brett A. Bednarczyk, 2013 Summary A Generalized Multiscale Analysis Approach brings together comprehensive background information on the multiscale nature of the composite constituent material behaviour damage models and key techniques for multiscale modelling as well as presenting the findings and methods developed over a lifetime s research of three leading experts in the field The unified approach presented in the book for conducting multiscale analysis and design of conventional and smart composite materials is also applicable for structures with complete linear and nonlinear material behavior with numerous applications provided to illustrate use Modeling composite behaviour is a key challenge in research and industry when done efficiently and reliably it can save money decrease time to market with new innovations and prevent component failure **NASA Technical Memorandum** ,1988 **Engine Structures** ,1988

**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

### **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

### **A Continuum Sensitivity Analysis of Large Deformations with Applications to Metal Forming Process Design**

Srikanth Akkaram,2001 *Improved Constitutive Laws for Finite Strain Inelastic Deformation* Matthew P. Miller,1993

**Inelasticity of Materials** Arun Ramaswamy Srinivasa,Srinivasan M. Sivakumar,2009 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 1 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 bull 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 bull 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 bull 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.

**Non-linear Elastic Deformations** R. W. Ogden, 1984 Application of theory of finite elasticity to solution of boundary value problems analysis of mechanical properties of solid materials capable of large elastic deformations Problems

**Computational Design of Deformation Processes for the Control of Microstructure-sensitive Properties**  
Shankar Ganapathysubramanian, 2004 Applied Mechanics Reviews, 1978

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