

L.M. KACHANOV

Fundamentals

of the Theory

of Plasticity

M Kachanov Theory Of Plasticity

Stuart Antman



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Combined Loadings in the Theory of Plasticity Michal Zyczkowski, 1981-12-31 *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 **Zeitschrift für Angewandte Mathematik und Mechanik. Volume 69, Number 1** H. Heinrich, G. Schmid, 2022-03-21 Keine ausführliche Beschreibung für Z ANGEW MATH MECH BD 69 1 ZAMM E BOOK verfügbar

Plastizität Wolfgang Brocks, 2013-04-17 Das Buch wendet sich als Lehrbuch vor allem an Studenten des Bauingenieurwesens und des Maschinenbaus Da die Grundlagen für das in den neuen Stahlbaunormen zugelassene plastische Berechnungsverfahren ausführlich dargestellt werden richtet es sich weiter an die Ingenieure die sich mit Planung Konstruktion und Berechnung von Stahlbauten beschäftigen Darüber hinaus wird es für alle Ingenieure die in Forschung und Praxis mit Festigkeitsproblemen metallischer Konstruktionen beschäftigt sind von Nutzen sein

Grenztragfähigkeits-Theorie der Platten A. Sawczuk, T. Jaeger, 2013-03-09 Als GALILEI die natürliche Frage nach der Tragfähigkeit eines Kragbalkens der am freien Ende mit einem Gewicht belastet ist in seinen Discorsi e dimostrazioni matematiche aus dem Jahre 1638 als erster quantitativ zu beantworten versucht nimmt er an daß sich der Widerstand des Materials gleichmäßig über die von ihm angenommene Zugzone verteilt und daß dieser Widerstand mit der Zugfestigkeit übereinstimmt Offenbar erkannte der große Italiener intuitiv daß in einem Balken alle Reserven des Tragwerks mobilisiert werden müssen bevor es endgültig zerstört werden kann Fast zweihundert Jahre bewegte das Problem der Bruchfestigkeit der Tragwerke das Denken der Mathematiker und Ingenieure bis unabhängig voneinander YOUNG und mit absoluter Klarheit NAVIER den elastischen und den plastischen Verformungsbereich eines Balkens voneinander trennen NAVIER stellt fest daß in demjenigen Bereich in welchem die Verformungen proportional der Belastung sind verhältnismäßig einfache mathematische Beziehungen formuliert werden können daß aber jenseits dieses Bereiches die entsprechenden Zusammenhänge recht kompliziert werden Insbesondere sei es sehr schwierig mit mathematischen Mitteln die Tragfähigkeit eines Balkens beim Bruch anzugeben Die Elastizitätstheorie beherrschte seitdem die Forschung und wurde auf eine hohe Entwicklungsstufe gebracht Sie wird zur Zeit nicht nur auf die wenigen Materialien angewendet bei denen die Dehnungen tatsächlich eine lineare Funktion der Spannungen sind sondern meist auch auf viele andere technische Baustoffe die einem solchen Verformungsgesetz nicht folgen *Nonlinear Problems of Elasticity* Stuart Antman, 2013-03-14 The scientists of the seventeenth and eighteenth centuries led by J. 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 velaria 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

Deformationsgesetze Georg Backhaus,1983-12-31 Keine ausführliche Beschreibung für Deformationsgesetze verfügbar

Umformtechnik Handbuch für Industrie und Wissenschaft Kurt Lange,2013-03-11 Falls Sie Wissenschaftler oder Praktiker auf dem Gebiet der Umformtechnik sind so stehen die ersten drei Bände dieser umfassenden und detaillierten Standardreferenz wahrscheinlich schon in Ihrem Regal Der vierte Band komplettiert das Werk Auch er wurde von führenden Industriepraktikern und Wissenschaftlern unter der Federführung eines der renommiertesten Fachleute auf diesem Gebiet verfasst

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

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 field

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

Micromechanics of Heterogeneous Materials Valeri 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

[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

Mechanics of Continuous Media Leonid Ivanovich Sedov, 1997

Mechanics Of Continuous Media (In 2 Vols) L I Sedov, 1997-06-01 This volume is written by Academician Sedov who is considered by many as the leading scientist in mechanics in the USSR This latest fourth edition helps the reader in a relatively short time to master and acquire fully the essence of many geometrical and mechanical theories

Foundations of Elastoplasticity: Subloading Surface Model Koichi Hashiguchi, 2023-06-12 This book is the standard text book for elastoplasticity viscoplasticity which is explained comprehensively covering the rate independent to

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 to 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 always 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

Damage Mechanics in Metal Forming Khemais Saanouni, 2013-02-04 The aim of this book is to summarize the current most effective methods for modeling simulating and optimizing metal forming processes and to present the main features of new innovative methods currently being developed which will no doubt be the industrial tools of tomorrow It discusses damage or defect prediction in virtual metal forming using advanced multiphysical and multiscale fully coupled constitutive equations Theoretical formulation numerical aspects as well as application to various sheet and bulk metal forming are presented in detail Virtual metal forming is nowadays inescapable when looking to optimize numerically various metal forming processes in order to design advanced mechanical components To do this highly predictive constitutive equations accounting for the full coupling between various physical phenomena at various scales under large deformation including the ductile damage occurrence are required In addition fully 3D adaptive numerical methods related to time and space discretization are required in order to solve accurately the associated initial and boundary value problems This book focuses on these two main and complementary aspects with application to a wide range of metal forming and machining processes

NASA Technical Translation ,1971

Handbuch der Physik: Rlastizität und Plastizität Siegfried Flügge,1955

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