

The Mathematical Theory of PLASTICITY

J. N. Goodier & P. G. Hodge, Jr.

Mathematical Theory Of Plasticity

Christian Drosten



Mathematical Theory Of Plasticity:

The Mathematical Theory of Plasticity Rodney Hill, 1998 First published in 1950 this important and classic book presents a mathematical theory of plastic materials written by one of the leading exponents **Elasticity and Plasticity** J. N. Goodier, P. G. Hodge, Jr., 2016-04-21 Comprising two classic essays by experts on the mathematical theories of elasticity and plasticity this volume is noteworthy for its contributions by Russian authors and others previously unrecognized in Western literature 1958 edition *The Mathematical Theory of Plasticity* R. Hill, 1950 The Mathematical Theory of Plasticity Rodney Hill, 1967 Plasticity Weimin Han, B. Daya Reddy, 2006-05-17 Focussing on theoretical aspects of the small strain theory of hardening elastoplasticity this monograph provides a comprehensive and unified treatment of the mathematical theory and numerical analysis exploiting in particular the great advantages gained by placing the theory in a convex analytic context Divided into three parts the first part of the text provides a detailed introduction to plasticity in which the mechanics of elastoplastic behaviour is emphasised while the second part is taken up with mathematical analysis of the elastoplasticity problem The third part is devoted to error analysis of various semi discrete and fully discrete approximations for variational formulations of the elastoplasticity Mathematical Theory of Elasticity, 2016 **The Mathematical Theory of Plasticity** S. G. Mikhlin, Brown University. Applied Mathematics Group, David W. Taylor Model Basin, 1945 *The Mathematical Theory of Plasticity* Philip Gibson HODGE, 1958 *Elements of the Mathematical Theory of Plasticity* Leonid Samuilovich Leibenson, 1947 Plasticity Weimin Han, Daya Reddy, 2012-11-16 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 **Mathematical Theory of Plasticity** S. K.

Chakraborty,1988 *The Stress Strain Laws of the Mathematical Theory of Plasticity a Survey of Recent Progress* William Prager,Brown University. Division of Applied Mathematics,United States. Office of Naval Research,United States. Navy Department. Bureau of Ships,1948 **Recent Developments in the Mathematical Theory of Plasticity** William Prager,Brown University. Division of Applied Mathematics,United States. Office of Naval Research,United States. Navy Department. Bureau of Ships,1948 The Mathematical Theory of Plasticity and Its Application to the Extrusion of Metals Robert George Fenton,1967 **Elasticity and Plasticity. The Mathematical Theory of Elasticity. [By] J.N. Goodier ... The Mathematical Theory of Plasticity. [By] P.G. Hodge** James Norman GOODIER,1958 *Elasticity and Plasticity* J.N. Goodier,P.G. Hodge (Jr),1958 *Variational Principles in the Mathematical Theory of Plasticity* Daniel Charles Drucker,1956 A Mathematical Theory of Plasticity for Strainhardening Materials Exhibiting Initial Anisotropy A. U. de Koning,1972 A Mathematical Theory of Plasticity Based on the Concept of Slip S. B. Batdorf,Bernard Budiansky,1949 A new theory is proposed for the relationship between stress and strain for initially isotropic theory is based on the assumption that slip in any direction along parallel planes of any given particular orientation in the material give rise to a plastic shear strain which depends only on the history of the corresponding component of shear stress The theory is shown to give results in better agreement than previously existing theories with data obtained in a crucial type of experiment in which a cylinder was compressed into the plastic range and then twisted at constant compressive strain **The Mechanical and Thermodynamical Theory of Plasticity** Mehrdad Negahban,2012-04-26 Born out of 15 years of courses and lectures on continuum mechanics nonlinear mechanics continuum thermodynamics viscoelasticity plasticity crystal plasticity and thermodynamic plasticity The Mechanical and Thermodynamical Theory of Plasticity represents one of the most extensive and in depth treatises on the mechanical and thermodynamical aspects of plastic and viscoplastic flow Suitable for student readers and experts alike it offers a clear and comprehensive presentation of multi dimensional continuum thermodynamics to both aid in initial understanding and introduce and explore advanced topics Covering a wide range of foundational subjects and presenting unique insights into the unification of disparate theories and practices this book offers an extensive number of problems figures and examples to help the reader grasp the subject from many levels Starting from one dimensional axial motion in bars the book builds a clear understanding of mechanics and continuum thermodynamics during plastic flow This approach makes it accessible and applicable for a varied audience including students and experts from engineering mechanics mechanical engineering civil engineering and materials science

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