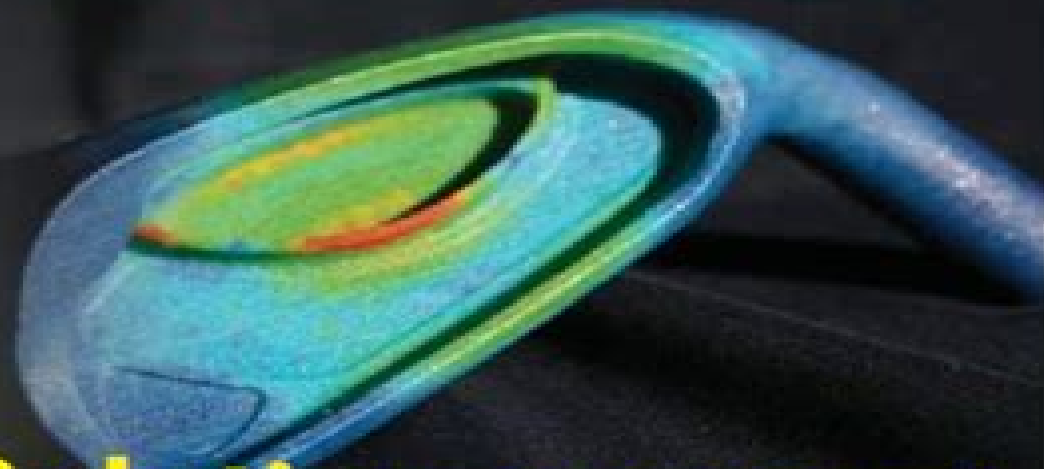


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Singular Solutions in Plasticity Sergei Alexandrov, 2017-07-12 This book deals with singular solutions that appear in the vicinity of maximum friction surfaces for several rigid plastic models In particular it discusses precise asymptotic expansions as a necessary ingredient for the development of efficient numerical methods to solve boundary value problems that involve the maximum friction law as a boundary condition An applied aspect of the singular solutions considered is that these solutions are capable of predicting the development of narrow hard layers near frictional interfaces in manufacturing processes

The Mechanical and Thermodynamical Theory of Plasticity - Solutions Manual Mehrdad Negahban, 2009-06-01

Fundamentals of Metal Forming Robert H. Wagoner, Jean-Loup Chenot, 1996-04-26 Designed as a textbook for courses on metal forming elasticity plasticity or continuum mechanics this work incorporates finite element methods and operations analysis Emphasis is placed on physical intuition and numerous exercises are used throughout

ABAQUS Theory Manual, 1997

Basics of Continuum Plasticity Kwansoo Chung, Myoung-Gyu Lee, 2018-05-02 This book describes the basic principles of plasticity for students and engineers who wish to perform plasticity analyses in their professional lives and provides an introduction to the application of plasticity theories and basic

continuum mechanics in metal forming processes This book consists of three parts The first part deals with the characteristics of plasticity and instability under simple tension or compression and plasticity in beam bending and torsion The second part is designed to provide the basic principles of continuum mechanics and the last part presents an extension of one dimensional plasticity to general three dimensional laws based on the fundamentals of continuum mechanics Though most parts of the book are written in the context of general plasticity the last two chapters are specifically devoted to sheet metal forming applications The homework problems included are designed to reinforce understanding of the concepts involved This book may be used as a textbook for a one semester course lasting fourteen weeks or longer This book is intended to be self sufficient such that readers can study it independently without taking another formal course However there are some prerequisites before starting this book which include a course on engineering mathematics and an introductory course on solid mechanics

Continuum Mechanics Ellis H. Dill, 2006-11-10 Most books on continuum mechanics focus on elasticity and fluid mechanics But whether student or practicing professional modern engineers need a more thorough treatment to understand the behavior of the complex materials and systems in use today *Continuum Mechanics Elasticity Plasticity Viscoelasticity* offers a complete tour of the subject that includes not only elasticity and fluid mechanics but also covers plasticity viscoelasticity and the continuum model for fatigue and fracture mechanics In addition to a broader scope this book also supplies a review of the necessary mathematical tools and results for a self contained treatment The author provides finite element formulations of the equations encountered throughout the chapters and uses an approach with just the right amount of mathematical rigor without being too theoretical for practical use Working systematically from the continuum model for the thermomechanics of materials coverage moves through linear and nonlinear elasticity using both tensor and matrix notation plasticity viscoelasticity and concludes by introducing the fundamentals of fracture mechanics and fatigue of metals Requisite mathematical tools appear in the final chapter for easy reference

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Applied Mechanics Reviews ,1981 *Continuum Mechanics and Plasticity* Han-Chin Wu, 2004-12-20

Tremendous advances in computer technologies and methods have precipitated a great demand for refinements in the constitutive models of plasticity Such refinements include the development of a model that would account for material anisotropy and produces results that compare well with experimental data Key to developing such models and to meeting many other challenges in the field is a firm grasp of the principles of continuum mechanics and how they apply to the

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