Von Mises Yield Criterion

Mao-Hong Yu

MECHANICS OF SOLIDS ARBIND KUMAR SINGH,2007-07-16 Designed as a text for both the undergraduate and postgraduate students of civil, mechanical, aerospace, and marine engineering, this book provides an indepth analysis of the fundamental principles of mechanics of deformable solids based on the phenomenological approach. The book starts with linear and angular momentum principles for a body. It introduces the concepts of stress, strain and the constitutive relations using tensors. Then it goes on to give a description of the laws of thermodynamics as a restriction on constitutive relations and formulates the boundary value problem in elasticity. Besides, the text treats bar under axial, bending and torsional deformation as well as plane stress and plane strain idealizations. The book concludes with a discussion on variational mechanics and the theory of plasticity. DISTINGUISHING FEATURES I Elaborate treatment of constitutive relations for linear elasticity. I Consistent formulation of strength of materials approach and three-dimensional elasticity for bar under axial, bending and torsional deformation. I Presentation of failure criteria and plasticity theory taking the modern developments into account.

Large number of worked-out examples throughout the text and exercises at the end of each chapter.

A Passage from Tresca's to Von Mises' Yield Criterion Kazuo Kondo, 1965

Unified Strength Theory and Its Applications Mao-Hong Yu,2017-11-21 This book thoroughly describes a theory concerning the yield and failure of materials under multi-axial stresses – the Unified Strength Theory, which was first proposed by the author and has been frequently quoted since. It provides a system of yield and failure criteria adopted for most materials, from metals to rocks, concretes, soils, and polymers. This new edition includes six additional chapters: General behavior of Strength theory function; Visualization of the Unified Strength Theory; Equivalent Stress of the UST and Comparisons with other criteria; Economic Signification of the UST; General form of failure criterion; Beauty of Strength Theories. It is intended for researchers and graduate students in various fields, including engineering mechanics, material mechanics, plasticity, soil mechanics, rock mechanics, mechanics of metallic materials and civil engineering, hydraulic engineering, geotechnical engineering, mechanical engineering and military engineering.

Modern Physical Metallurgy and Materials Engineering R. E. Smallman, R. J. Bishop, 1999-12-08 The sixth edition of Modern Physical Metallurgy provides a comprehensive overview of the structure of matter, the physical properties of

materials and their mechanical behaviour and some of the most recent advances in physical metallurgy.

Strength and Stiffness of Engineering Systems Frederick A. Leckie, Dominic J. Bello, 2009-04-29 This book offers comprehensive coverage of topics used in engineering solutions for the stiffness and strength of physical systems, with a range of scales from micrometers to kilometers. Coverage integrates a wide array of topics into a unified text, including such subjects as plasticity, fracture, composite materials, energy approaches, and mechanics of microdevices (MEMs). This integrated and unified approach reflects the reality of modern technology with its demands to learn the fundamentals of new subjects quickly.

Nonlinear Finite Element Analysis and Adina K. J. Bathe, 2014-05-23 Nonlinear Finite Element Analysis and ADINA contains the proceedings of the Fourth ADINA Conference held at Massachusetts Institute of Technology on June 15-17, 1983. Separating the papers presented in the conference as chapters, this book first elucidates the use of ADINA for analysis of mines with explosive fills. Subsequent chapters explore the use of ADINA in soil mechanics; nonlinear shell analysis; analysis of bond between prestressed steel and concrete; determination and simulation of stable crack growth; offshore structures analysis; modeling of traveling-loads and time-dependent masses; and comparison of two slideline methods. Other notable applications of ADINA are also shown.

An Introduction to the Mechanics of Deformable Bodies Marvin Stippes, 1961

Mechanical Properties of Solid Polymers I. M. Ward,1983-06-27 A concise, self-contained introduction to solid polymers, the mechanics of their behavior and molecular and structural interpretations. This updated edition provides extended coverage of recent developments in rubber elasticity, relaxation transitions, non-linear viscoelastic behavior, anisotropic mechanical behavior, yield behavior of polymers, breaking phenomena, and other fields.

Finite Element Modeling in Engineering Practice Constantine Christoforos Spyrakos, 1996

An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994

A Collection of Technical Papers, 1966

A Volume of Technical Papers Presented American Institute of Aeronautics and Astronautics. Structures and Materials Conference,1966

Instrumentation for Measurement of Moisture L. F. Ballard, 1973

Biaxial Testing of 2219-T87 Aluminum Alloy Using Cruciform Specimens D. S. Dawicke, 1997

Constitutive Equations for Engineering Materials Wai-Fah Chen, Atef F. Saleeb, 1994 Hardbound. Volume 2 extends the elasticity-based stress-strain models to the plastic range and develops plasticity-based models for engineering applications and is divided into four parts. Parts one and two contain a sufficient comprehensive treatment of the classical theory of plasticity and its applications to metal structures. Parts three and four present a state-of-the-art coverage of

concrete plasticity and soil plasticity.

Mechanics of Composite Materials G. P. Sendeckyj, 1974

Materials for Engineering Brian Derby, David Anthony Hills, Carlos Ruiz, 1992 Looks at the mechanical properties of both new and traditional materials from the perspective of the engineer, that is, placing emphasis on how to deal with the material properties in design, rather than concentrating on the physical properties of the materials themselves. Assumes only basic knowledge. Annotation copyrighted by Book News, Inc., Portland, OR

Mechanical Metallurgy George E. Dieter, 1976

Finite Elements in Geotechnical Engineering David John Naylor, G. N. Pande, 1981

Finite Element Analysis of Elasto-plastic Frictional Contact Problems with Large Sliding Wenhua Ling, 1995

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