Mathematical Theory of Creep and Creep Rupture

odqvist, folke

Mathematical Theory Of Creep And Creep Rupture

S.R. Bodner,J. Singer,A. Solan,Z. Hashin

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Mathematical Theory of Creep and Creep Rupture Folke Karl Gustaf Odqvist,1966 For deisgners and computing engineers dealing with high temperature machinery jet engines and high velocity aeronautics **Mathematical Theory of Creep and Creep Rupture** Folke K. G. Odqvist,1986 *Introduction to Nonlinear Thermomechanics* Andrzej Sluzalec,2012-12-06 Professor Sluzalec is a well known and respected authority in the field of Computational Mechanics and his personal experience forms the basis of the book Introduction to Nonlinear Thermomechanics provides both an elementary and advanced exposition of nonlinear thermomechanics The scope includes theoretical aspects and their rational application in thermal problems thermo elastoplasticity finite strain thermoplasticity and coupled thermoplasticity The use of numerical techniques for the solution of problems and implementation of basic theory is included Engineers technicians researchers and advanced students will find the book an extremely useful compendium of solutions to problems The scope is such that it would also be an effective teaching aid *Mathematical theory of creep and rupture* Folke K. Odquist,1974 *Mechanical Behaviour of Materials - VI* M. Jono,T. Inoue,2013-10-22 Significant progress in the science and technology of the mechanical behaviour of materials has been made in recent years The greatest strides forward have occurred in the field of advanced materials with high performance such as ceramics composite materials and intermetallic compounds The Sixth International Conference on Mechanical Behaviour of Materials ICM 6 taking place in Kyoto Japan 29 July 2 August 1991 addressed these issues In commemorating the fortieth anniversary of the Japan Society of Materials Science organised by the Foundation for Advancement of International Science and supported by the Science Council of Japan the information provided in these proceedings reflects the international nature of the meeting It provides a valuable account of recent developments and problems in the field of mechanical behaviour of materials **Theoretical and Applied Mechanics 1992** S.R. Bodner,J. Singer,A. Solan,Z. Hashin,2012-12-02 Contained in this volume are the full texts of the invited general and sectional lectures presented at this conference concerning mechanics and its development The entire field of mechanics is covered including analytical solid and fluid mechanics and their applications A brilliant survey of work in the fields of fluid and solid mechanics is also given The papers are written by leading experts which is reflected in the quality and diversity of the lectures and posters presented they will provide a valuable key to the latest and most important developments in the various sub fields of mechanics **Engineering Solid Mechanics** Abdel-Rahman A. Ragab,Salah Eldin Ahm Bayoumi,2018-02-06 Engineering Solid Mechanics bridges the gap between elementary approaches to strength of materials and more advanced specialized versions on the subject The book provides a basic understanding of the fundamentals of elasticity and plasticity applies these fundamentals to solve analytically a spectrum of engineering problems and introduces advanced topics of mechanics of materials including fracture mechanics creep superplasticity fiber reinforced composites powder compacts and porous solids Text includes stress and strain equilibrium and compatibility elastic stress strain relations the elastic problem and the stress

function approach to solving plane elastic problems applications of the stress function solution in Cartesian and polar coordinates Problems of elastic rods plates and shells through formulating a strain compatibility function as well as applying energy methods Elastic and elastic plastic fracture mechanics Plastic and creep deformation Inelastic deformation and its applications This book presents the material in an instructive manner suitable for individual self study It emphasizes analytical treatment of the subject which is essential for handling modern numerical methods as well as assessing and creating software packages The authors provide generous explanations systematic derivations and detailed discussions supplemented by a vast variety of problems and solved examples Primarily written for professionals and students in mechanical engineering Engineering Solid Mechanics also serves persons in other fields of engineering such as aerospace civil and material engineering   *Superalloys 2012* Eric S. Huron,Roger C. Reed,Mark C. Hardy,Michael J. Mills,Rick E. Montero,Pedro Dolabella Portella,Jack Telesman,2012-10-02 A superalloy or high performance alloy is an alloy that exhibits excellent mechanical strength at high temperatures Superalloy development has been driven primarily by the aerospace and power industries This compilation of papers from the Twelfth International Symposium on Superalloys held from September 9 13 2012 offers the most recent technical information on this class of materials   **An Introduction to Thermomechanics** H. Ziegler,2012-12-02 North Holland Series in Applied Mathematics and Mechanics Volume 21 An Introduction to Thermomechanics Second Revised Edition focuses on the methodologies reactions and processes involved in thermomechanics including kinematics thermodynamics elasticity and tensors The book first offers information on kinematics kinetics and thermodynamics Discussions focus on field theory state variables momentum theorems state of stress energy theorem state of motion small displacements and material derivatives The manuscript then ponders on material properties ideal liquids linear elasticity and inviscid gases The text elaborates on viscous fluids plastic bodies viscoelasticity and general tensors Topics include tensor algebra mechanical constitutive relations thermomechanical extension hereditary integrals perfectly plastic bodies turbulence and basic equations The book then reviews viscoelastic bodies plasticity non Newtonian liquids and maximal dissipation The publication is a valuable reference for researchers wanting to dig deeper into thermomechanics   **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

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The Boundary Element Method Applied to Inelastic Problems J.C.F. Telles,2012-12-06   **Thermal Stresses -- Advanced Theory and Applications** Richard B. Hetnarski,M. Reza Eslami,2008-12-23 The authors are pleased to present Thermal Stresses Advanced Theory and Applications This book will serve a wide range of readers in particular gr uate students PhD candidates professors scientists researchers in various industrial and government institutes and engineers Thus the book should be considered not only as a graduate textbook but also as a reference handbook to those working or interested in areas of Applied Mathematics Continuum Mechanics Stress Analysis and Mechanical Design In addition the book p vides extensive coverage of great many theoretical problems and numerous references to the literature The eld of Thermal Stresses lies at the crossroads of Stress Analysis T ory of Elasticity Thermodynamics Heat Conduction Theory and advanced methods of Applied Mathematics Each of these areas is covered to the extend it is necessary Therefore the book is self contained so that the reader should not need to consult other sources while studying the topic The book starts from basic concepts and principles and these are developed to more advanced levels as the text progresses Nevertheless some basic preparation on the part of the reader in Classical Mechanics Stress Analysis and Mathematics cluding Vector and Cartesian Tensor Analysis is expected While selecting material for the book the authors made every e ort to present both classical topics and methods and modern or more recent dev opments in the eld The book comprises ten chapters   **Damage Mechanics** D. Krajcinovic,1996-04-22 This book provides the first truly comprehensive study of damage mechanics All concepts are carefully identified and defined in micro and macroscopic scales In terms of the methods and observation scales the main part of the book is divided into three chapters These chapters consider the stochastic models applied to atomistic scale micromechanical models for arbitary concentrations of defects on microscopic scale and continuum models on the macroscopic scale It is intended for people who are doing or planning to do research in the mechanics and material science aspects of brittle deformation of solids with heterogeneous microstructure   **Modeling High Temperature Materials**

Behavior for Structural Analysis Konstantin Naumenko,Holm Altenbach,2019-06-01 This second part of the work on creep modeling offers readers essential guidance on practical computational simulation and analysis Drawing on constitutive equations for creep in structural materials under multi axial stress states it applies these equations which are developed in detail in part 1 of the work to a diverse range of examples **Advances in Nuclear Science and Technology** Ernest J. Henley,Jeffery Lewins,2014-05-09 Advances in Nuclear Science and Technology Volume 6 provides information pertinent to the fundamental aspects of nuclear science and technology This book covers a variety of topics including nuclear steam generator oscillations fast reactor fuel gas centrifuge thermal transport system and fuel cycle Organized into six chapters this volume begins with an overview of the high standards of technical safety for Europe s first nuclear propelled merchant ship This text then examines the state of knowledge concerning qualitative results on the behavior of the solutions of the nonlinear point kinetics equations with linear feedback Other chapters consider the mathematical methods used in the calculations and outline the main features peculiar to fast systems This book discusses as well the thermal transport in reactors The final chapter deals with the status of nuclear energy in Western Europe which depends on the development and introduction of reactor types that make a better use of the nuclear resources This book is a valuable resource for reactor physicists **Applied Mechanics Reviews** ,1968 **Fatigue of Electronic Materials** Scott A. Schroeder,Michael R. Mitchell,1994 Unlike earlier electronic circuits today s microelectronic devices demand that solder serve structural as well as electrical ends and do so at relatively high temperature for years Fatigue and failure of the solder has therefore become an issue in the industry Nine studies from a May 1993 sympos *Thermomechanics of Solids and Structures* Marko Canadija,2023-04-19 Thermomechanics of Solids and Structures Physical Mechanisms Continuum Mechanics and Applications covers kinematics balance equations the strict thermodynamic frameworks of thermoelasticity thermoplasticity creep covering constitutive equations the physical mechanisms of deformation along with computational aspects The book concludes with coverage of the thermodynamics of solids and applications of the constitutive three dimensional model to both one dimensional homogeneous and composite beam structures Practical applications of the theories and techniques covered are emphasized throughout the book with analytical solutions provided for various problems Provides foundational knowledge on continuum mechanics covering kinematics balance equations isothermal elasticity and plasticity variational principles and more Presents applications of constitutive 3D models to homogeneous and composite beams including equations for stress and displacement estimation in thermoelastic beam problems Reviews experimental results of thermoelastic material behavior along with case studies to support reviews Covers the inelastic behavior of materials at elevated temperatures with experimental results for both monotonic and cyclic tensile tests presented Looks at the physical mechanisms experimental results and constitutive modeling of creep **Modeling of Material Damage and Failure of Structures** Jacek J. Skrzypek,Artur Ganczarski,2013-04-17 The area of material damage models has undergone a rapid

development in the past few years This is an extensive and comprehensive survey of one and three dimensional damage models for elastic and inelastic solids The state of the art is reported by about 200 references The book not only provides a rich current source of knowledge but also describes examples of practical applications numerical procedures and computer codes The style of presentation is systematic clear and concise and is supported by illustrative diagrams   Technical Report Cold Regions Research and Engineering Laboratory (U.S.),1983

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