

L.M. Kachanov

Introduction to Continuum Damage Mechanics

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J.S. Yang, Gérard A. Maugin



Introduction To Continuum Damage Mechanics:

Introduction to continuum damage mechanics, 1990 *Introduction to continuum damage mechanics* L.

Kachanov, 2013-03-09 Modern engineering materials subjected to unfavorable mechanical and environmental conditions decrease in strength due to the accumulation of microstructural changes For example considering damage in metals we can mention creep damage ductile plastic damage embrittlement of steels and fatigue damage To properly estimate the value of damage when designing reliable structures it is necessary to formulate the damage phenomenon in terms of mechanics Then it is possible to analyse various engineering problems using analytical and computational techniques During the last two decades the basic principles of continuum damage mechanics were formulated and some special problems were solved Many scientific papers were published and several conferences on damage mechanics took place Now continuum damage mechanics is rapidly developing branch of fracture mechanics This book is probably the first one on the subject it contains a systematic description of the basic aspects of damage mechanics and some of its applications In general a theoretical description of damage can be rather complicated The experiments in this field are difficult especially under multiaxial stress and non proportional loading Therefore experimental data as a rule are scarce Determination of functions and constants which play a role in the complex variants of the theory from available experimental data is often practically impossible ix L M Kachanov The problems of damage mechanics are mainly engineering ones Therefore the author tries to avoid superfluous mathematical formalism Some more details of the book's subject can be found in the list of contents **Continuum**

Damage Mechanics Theory and Application Dusan Krajcinovic, Jean Lemaitre, 2014-05-04 *Advances in Damage Mechanics: Metals and Metal Matrix Composites With an Introduction to Fabric Tensors* George Voyiadjis, Peter I.

Kattan, 2010-07-07 The book presents the principles of Damage Mechanics along with the latest research findings Both isotropic and anisotropic damage mechanisms are presented Various damage models are presented coupled with elastic and elasto plastic behavior The book includes two chapters that are solely dedicated to experimental investigations conducted by the authors In its last chapter the book presents experimental data for damage in composite materials that appear in the literature for the first time Systematic treatment of damage mechanics in composite materials Includes special and advanced topics Includes basic principles of damage mechanics Includes new experimental data that appears in print for the first time Covers both metals and metal matrix composite materials Includes new chapters on fabric tensors Second edition includes four new chapters *Continuum Damage Mechanics and Numerical Applications* Wohua Zhang, Yuanqiang Cai, 2010-11-19 Continuum Damage Mechanics and Numerical Applications presents a systematic development of the theory of Continuum Damage Mechanics and its numerical engineering applications using a unified form of the mathematical formulations in anisotropic and isotropic damage models The theoretical framework is based on the thermodynamic theory of energy and material dissipation and is described by a set of fundamental formulations of constitutive equations of damaged materials

development equations of the damaged state and evolution equations of micro structures According to concepts of damage dissipation of the material state and effective evolution of material properties all these advanced equations which take nonsymmetrized effects of damage aspects into account are developed and modified from the traditional general failure models so they are more easily applied and verified in a wide range of engineering practices by experimental testing Dr Wohua Zhang is a Professor at Engineering Mechanics Research Center in Zhejiang University of China Dr Yuanqiang Cai is a Professor at Department of Civil Engineering in Zhejiang University of China *Applications of Continuum Damage Mechanics to Fatigue and Fracture* David L. McDowell, 1997 Contains papers from the May 1996 Symposium on Applications of Continuum Damage Mechanics CDM to Fatigue and Fracture Papers in Section I deal with various aspects of modeling damage in composite materials such as high temperature environmental degradation fatigue and viscous damage in metal a

Continuum Damage Mechanics of Materials and Structures O. Allix, F. Hild, 2002-08-13 Created in 1975 LMT Cachan is a joint laboratory cole Normale Supérieure de Cachan Pierre Marie Curie Paris 6 University and the French Research Council CNRS Department of Engineering Sciences The Year 2000 marked the 25th anniversary of LMT On this occasion a series of lectures was organized in Cachan in September October 2000 This publication contains peer reviewed proceedings of these lectures and is aimed to present engineers and scientists with an overview of the latest developments in the field of damage mechanics The formulation of damage models and their identification procedures were discussed for a variety of materials **Damage Mechanics: Theory, Computation and Practice** Khemais Saanouni, 2015-08-18 Selected peer reviewed papers from the 2nd International Conference on Damage Mechanics ICDM2 July 8 11 2015 Troyes France

Advances in Damage Mechanics: Metals and Metal Matrix Composites George Voyiadjis, 2012-12-02 This book provides in a single and unified volume a clear and thorough presentation of the recent advances in continuum damage mechanics for metals and metal matrix composites Emphasis is placed on the theoretical formulation of the different constitutive models in this area but sections are added to demonstrate the applications of the theory In addition some sections contain new material that has not appeared before in the literature The book is divided into three major parts Part I deals with the scalar formulation and is limited to the analysis of isotropic damage in materials Parts II and III deal with the tensor formulation and is applied to general states of deformation and damage The material appearing in this text is limited to plastic deformation and damage in ductile materials e g metals and metal matrix composites but excludes many of the recent advances made in creep brittle fracture and temperature effects since the authors feel that these topics require a separate volume for this presentation Furthermore the applications presented in this book are the simplest possible ones and are mainly based on the uniaxial tension test Damage and Healing Mechanics of Materials George Z. Voyiadjis, Peter I. Kattan, 2025-06-27 Damage and Healing Mechanics of Materials Metals and Metal Matrix Composites covers the fundamentals of damage mechanics with various damage models presented coupled with elastic and elasto plastic behavior

Experimental investigations and the related data for damage in composite materials are included as are computational modeling and simulation methods for investigating damage and healing in various materials and structures Healing mechanics using both scalars and more general theory based on tensor notations are discussed as are applications of damage mechanics Undamageable materials the generalized method of cells phase field modeling cyclic plasticity concepts and more are all also covered Introduces computational methods and numerical techniques such as finite element analysis and molecular dynamics to model and simulate damage and healing in various materials and structures Discusses the ways cracks and voids are subjected to healing mechanisms and new composites that are designed to be more resilient and resistant to damage Covers uniaxial tension in metal matrix composites damage and plasticity in metals experimental damage investigation techniques anisotropic healing and more

Continuum Damage and Fracture Mechanics Andreas Öchsner, 2015-10-15 This textbook offers readers an introduction to fracture mechanics equipping them to grasp the basic ideas of the presented approaches to modeling in applied mechanics In the first part the book reviews and expands on the classical theory of elastic and elasto plastic material behavior A solid understanding of these two topics is the essential prerequisite to advancing to damage and fracture mechanics Thus the second part of this course provides an introduction to the treatment of damage and fractures in the context of applied mechanics Wherever possible the one dimensional case is first introduced and then generalized in a following step This departs somewhat from the more classical approach where first the most general case is derived and then simplified to special cases In general the required mathematics background is kept to a minimum Tutorials are included at the end of each chapter presenting the major steps for the solution and offering valuable tips and tricks The supplementary problems featured in the book

Mechanics of Electromagnetic Solids J.S. Yang, Gérard A. Maugin, 2003-10-31 The mechanics of electromagnetic materials and structures has been developing rapidly with extensive applications in e g electronics industry nuclear engineering and smart materials and structures Researchers in this interdisciplinary field are with diverse background and motivation The Symposium on the Mechanics of Electromagnetic Materials and Structures of the Fourth International Conference on Nonlinear Mechanics in Shanghai China in August 13 16 2002 provided an opportunity for an intimate gathering of researchers and exchange of ideas This volume contains papers based on most of the presentations at the symposium and articles from a few invited contributors These papers reflect some of the recent activities in the mechanics of electromagnetic materials and structures The first twelve papers are in the order in which they were listed in the program of the conference These are followed by six invited papers in alphabetical order of the last names of the first authors We would like to extend our sincere thanks to Professor David Y Gao of Virginia Tech for suggesting the symposium and to the authors for their time and effort invested in preparing their manuscripts We are also grateful to Professor Daining Fang of Tsinghua University for co chairing the symposium with J S Yang Our special thanks belong to Kluwer for preparing this book for publication J S Yang G A Maugin

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S *Recent Advances in Structural Engineering*, 2005-02 This book contains state of the art review articles on specific research areas in the civil engineering discipline the areas include geotechnical engineering hydraulics and water resources engineering and structural engineering The articles are written by invited authors who are currently active at the international level in their respective research fields **Rock Damage and Fluid Transport, Part I** G. Dresen, Ove

Stephansson, Arno Zang, 2008-01-24 Mechanical properties and fluid transport in rocks are intimately linked as deformation of a solid rock matrix immediately affects the pore space and permeability Part I of this topical volume covers mainly the nucleation and evolution of crack damage in rocks new or modified techniques to measure rock fracture toughness and a discussion of upscaling techniques relating mechanical and fluid transport behaviour in rocks at different spatial scales

Nonlinear Analyses of Laminated Plates and Shells with Damage Yi-Ming Fu, 2013 The contents of this book are related to composite mechanics nonlinear plate and shell mechanics damage mechanics elasto plastic mechanics visco elastic mechanics piezoelectric elastic mechanics and nonlinear dynamics which embody the combination and integration among solid mechanics material science and nonlinear science **Handbook of Materials Modeling** Sidney Yip, 2007-11-17 The first reference of its kind in the rapidly emerging field of computational approaches to materials research this is a compendium of perspective providing and topical articles written to inform students and non specialists of the current status and capabilities of modelling and simulation From the standpoint of methodology the development follows a multiscale approach with emphasis on electronic structure atomistic and mesoscale methods as well as mathematical analysis and rate processes Basic models are treated across traditional disciplines not only in the discussion of methods but also in chapters on crystal defects microstructure fluids polymers and soft matter Written by authors who are actively participating in the current development this collection of 150 articles has the breadth and depth to be a major contributor toward defining the field of computational materials In addition there are 40 commentaries by highly respected researchers presenting various views that should interest the future generations of the community Subject Editors Martin Bazant MIT Bruce Boghosian Tufts University Richard Catlow Royal Institution Long Qing Chen Pennsylvania State University William Curtin Brown University Tomas Diaz de la Rubia Lawrence Livermore National Laboratory Nicolas Hadjiconstantinou MIT Mark F Horstemeyer Mississippi State University Efthimios Kaxiras Harvard University L Mahadevan Harvard University Dimitrios Maroudas University of Massachusetts Nicola Marzari MIT Horia Metiu University of California Santa Barbara Gregory C Rutledge MIT David J Srolovitz Princeton University Bernhardt L Trout MIT Dieter Wolf Argonne National Laboratory **Constitutive**

Modelling of Solid Continua José Merodio, Raymond Ogden, 2019-11-14 This volume consists of a collection of chapters by recognized experts to provide a comprehensive fundamental theoretical continuum treatment of constitutive laws used for modelling the mechanical and coupled field properties of various types of solid materials It covers the main types of solid material behaviour including isotropic and anisotropic nonlinear elasticity implicit theories viscoelasticity plasticity electro

and magneto mechanical interactions growth damage thermomechanics poroelasticity composites and homogenization The volume provides a general framework for research in a wide range of applications involving the deformation of solid materials It will be of considerable benefit to both established and early career researchers concerned with fundamental theory in solid mechanics and its applications by collecting diverse material in a single volume The readership ranges from beginning graduate students to senior researchers in academia and industry *Creep and Damage in Materials and Structures* Holm Altenbach, Jacek J. Skrzypek, 2014-05-04 This textbook gives a concise survey of constitutive and structural modeling for high temperature creep damage low cycle fatigue and other inelastic conditions The book shows the creep and continuum damage mechanics as rapidly developing discipline which interlinks the material science foundations the constitutive modeling and computer simulation application to analysis and design of simple engineering components It is addressed to young researchers and scientists working in the field of mechanics of inelastic time dependent materials and structures as well as to PhD students in computational mechanics material sciences mechanical and civil engineering

Fracture 84 S. R. Valluri, 2013-10-02 *Fracture 84* Constitutive Models for Rubber IV Per-Erik Austrell, 2017-12-04 The unique properties of elastomeric materials offer numerous advantages in many engineering applications Elastomeric units are used as couplings or mountings between rigid components for example in shock absorbers vibration insulators flexible joints seals and suspensions etc However the complicated nature of the behaviour of such material makes it difficult to accurately predict the performance of these units using finite element modelling for example It is imperative that constitutive models accurately capture relevant aspects of mechanical behaviour The latest developments concerning constitutive modelling of rubber is collected in these Proceedings Topics included in this volume are Hyperelastic models Strength fracture fatigue Dynamic properties the Fletcher Gent effect Micro mechanical statistical approaches Stress softening iscoelasticity Filler reinforcement and Tyres fibre cord reinforced rubber

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