



Time-Dependent Fracture

A.S. Krausz
(editor)

Martinus Nijhoff Publishers

Time Dependent Fracture

Ian Milne, R. O. Ritchie, B.L. Karihaloo

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the light blue bar.

Time Dependent Fracture:

Time-Dependent Fracture Mechanics Dominique P. Miannay, 2001 Intended for engineers researchers and graduate students dealing with materials science structural design and nondestructive testing and evaluation this book represents a continuation of the author's Fracture Mechanics 1997 It will appeal to a variety of audiences The discussion of design codes and procedures will be of use to practicing engineers particularly in the nuclear aerospace and pipeline industries the extensive bibliography and discussion of recent results will make it a useful reference for academic researchers and graduate students will find the clear explanations and worked examples useful for learning the field The book begins with a general treatment of fracture mechanics in terms of material properties and loading and provides up to date reviews of the ductile brittle transition in steels and of methods for analyzing the risk of fracture It then discusses the dynamics of fracture and creep in homogeneous and isotropic media including discussions of high loading rate characteristics the behavior of stationary cracks in elastic media under stress and the propagation of cracks in elastic media This is followed by an analysis of creep and crack initiation and propagation describing for example the morphology and incubation times of crack initiation and growth and the effects of high temperatures The book concludes with treatments of cycling deformation and fatigue creep fatigue fractures and crack initiation and propagation Problems at the end of each chapter serve to reinforce and test the student's knowledge and to extend some of the discussions in the text Solutions to half of the problems are provided

Nonlinear Fracture Mechanics: Time-dependent fracture Ashok Saxena, John D. Landes, John L. Bassani, 1988

Time-Dependent Fracture A.S. Krausz, 2012-12-06 The understanding of time dependent crack propagation processes occupies a central place in the study of fracture It also encompasses a wide range of conditions failure under sustained loading in a corrosive environment fracture under cyclic loading in non degrading and in corrosive environment and rupture at high temperature This list covers probably 90% of the failures that occur in engineering practice The process of time dependent fracture is controlled by the physics of atomic interaction changes it is strongly influenced by the micro structure and affected by the interaction of the material with the mechanical load displacement the thermal temperature and the chemical or radiation environment To be able to control crack propagation the development of testing methods and the understanding of the industrial environment is essential The conference was organized in this context A call was issued for contributions to the following topics THERMAL ACTIVATION Theoretical papers dealing with the modification of fracture mechanics to accommodate thermally activated processes TIME DEPENDENT MICRO PROCESSES Presentations covering both the theoretical and observational aspects of creep and fatigue damage in materials whose microstructures may exert a significant influence on crack growth INDUSTRIAL APPLICATIONS Submissions describing the practical application of fracture mechanics and damage tolerance analysis to the determination of useful operating lives x ENVIRONMENTAL EFFECTS Papers dealing with engineering materials and or components exposed to aggressive environments with and

without temperature effects The response was gratifying Leading experts responded the organizers of the conference are grateful for the large number of excellent contributions

Time-Dependent Fracture A S Krausz,1985-02-28 **Time Dependent Fracture and Damage** Ping Zhang,Society of Automotive Engineers,1988 **Time Dependent Constitutive Behavior and Fracture/Failure Processes, Volume 3** Tom Proulx,2011-05-10 This the third volume of six from the Annual Conference of the Society for Experimental Mechanics 2010 brings together 56 chapters on Time Dependent Constitutive Fracture and Failure It presents early findings from experimental and computational investigations on Time Dependent Materials including contributions on Thermal and Mechanical Characterization Coupled Experimental and Computational Analysis of Fracture Path Selection Procedures for Mixed Mode Fracture Testing of Bonded Beams and Experimental Study of Voids in High Strength Aluminum Alloys **Vol. I-Nonlinear Fracture Mechanics: Time Dependent Fracture , FLAC and Numerical Modeling in Geomechanics** Christine Detournay,Roger Hart,2020-12-17 Sixty five papers cover a wide range of topics from engineering applications to theoretical developments in the areas of embankment and slope stability underground cavity design and mining dynamic analysis soil and structure interaction and coupled processes and fluid flow *Time-dependent Fracture of Materials at Elevated Temperature* ,1979 Separate abstracts have been prepared for items within the scope of the energy data base FS **Mechanical Behaviour of Materials** K. J. Miller,2013-09-24 **Mechanical Behaviour of Materials** Mechanics of Biomaterials Lisa A. Pruitt,Ayyana M. Chakravartula,2011-10-20 Combining materials science mechanics implant design and clinical applications this self contained text provides a complete grounding to the field Numerical Analysis of Time-dependent Inelastic Fracture Vinod Kumar Banthia,1984 **An Investigation of the Effects of History Dependent Damage in Time Dependent Fracture Mechanics, Phase 1, Constant Load Conditions. Progress Report** ,1991 In the following section a brief review of constitutive models is presented along with the implications of using them in creep crack growth studies under variable loads The model searched for this study is discussed along with its special features that make it particularly suitable for this investigation This model is based on the creep hardening surface and is particularly useful for variable and fully reversed load histories In Section 3 an implicit finite element algorithm for this model is derived Details regarding implementation of this method into FVP and existing FE program to study creep crack growth are also discussed The results of the algorithm are verified against closed form solutions for simple geometries in Section 4 Sources of error and differences between using explicit and implicit schemes are also presented Section 5 compares the numerical results with experimental data for the case of combined tension and torsion and fully reversed load histories Section 6 provides results of some of the constant load creep crack growth analyses that have been performed to date Because a wealth of experimental data has been developed for creep crack under constant load conditions the need to develop our own creep growth data for this study was minimal Conclusions of the Phase 1 work as well as work planned for the future are discussed in Section 7 Finally Sections 8 and 9 discuss publications

and the Phase 2 effort respectively Finally the implementation of large strain and friction contact algorithms into the finite element code and the implementation of three additional non linear constitutive laws and the Walker Model are not discussed here The large strain algorithm is complete the endochronic theory is nearly complete while subroutines for the Bodner and Walker models were obtained from the agencies described above [Time-dependent Fracture](#) Canadian Fracture Conference (Ottawa),1985 **An Investigation of the Effects of History Dependent Damage in Time Dependent Fracture Mechanics, Phase 1, Constant Load Conditions** ,1991 In the following section a brief review of constitutive models is presented along with the implications of using them in creep crack growth studies under variable loads The model searched for this study is discussed along with its special features that make it particularly suitable for this investigation This model is based on the creep hardening surface and is particularly useful for variable and fully reversed load histories In Section 3 an implicit finite element algorithm for this model is derived Details regarding implementation of this method into FVP and existing FE program to study creep crack growth are also discussed The results of the algorithm are verified against closed form solutions for simple geometries in Section 4 Sources of error and differences between using explicit and implicit schemes are also presented Section 5 compares the numerical results with experimental data for the case of combined tension and torsion and fully reversed load histories Section 6 provides results of some of the constant load creep crack growth analyses that have been performed to date Because a wealth of experimental data has been developed for creep crack under constant load conditions the need to develop our own creep growth data for this study was minimal Conclusions of the Phase 1 work as well as work planned for the future are discussed in Section 7 Finally Sections 8 and 9 discuss publications and the Phase 2 effort respectively Finally the implementation of large strain and friction contact algorithms into the finite element code and the implementation of three additional non linear constitutive laws and the Walker Model are not discussed here The large strain algorithm is complete the endochronic theory is nearly complete while subroutines for the Bodner and Walker models were obtained from the agencies described above [Comprehensive Structural Integrity](#) Ian Milne,R. O. Ritchie,B.L. Karihaloo,2003-07-25 The aim of this major reference work is to provide a first point of entry to the literature for the researchers in any field relating to structural integrity in the form of a definitive research reference tool which links the various sub disciplines that comprise the whole of structural integrity Special emphasis will be given to the interaction between mechanics and materials and structural integrity applications Because of the interdisciplinary and applied nature of the work it will be of interest to mechanical engineers and materials scientists from both academic and industrial backgrounds including bioengineering interface engineering and nanotechnology The scope of this work encompasses but is not restricted to fracture mechanics fatigue creep materials dynamics environmental degradation numerical methods failure mechanisms and damage mechanics interfacial fracture and nano technology structural analysis surface behaviour and heart valves The structures under consideration include pressure vessels and piping off shore structures gas installations and

pipelines chemical plants aircraft railways bridges plates and shells electronic circuits interfaces nanotechnology artificial organs biomaterial prostheses cast structures mining and more Case studies will form an integral part of the work

Energy Research Abstracts, 1979 *An Investigation of the Effects of History Dependent Damage in Time Dependent Fracture Mechanics, Variable Load Conditions*, 1992 The demands for structural systems to perform reliably under severe temperatures and load conditions continue to increase These demands will continue with the development of advanced power generation methods and for future aerospace applications An understanding of the hightemperature creep crack growth process which is a frequent failure mechanism in these structures is important Many investigations which have appeared to date are concerned with creep crack growth which occurs under a constant load and temperature However most structural components experience complicated load histories The history of degradation and damage which accumulates at the crack tip is greatly influenced by these transients This program aims at gaining an understanding of the history dependent high temperature failure process through a combined experimental and analytical effort Development of a useful predictive methodology for characterizing this process is being undertaken *Time-dependent Fracture of Concrete* Pei Liu, Yeou-Shang Jenq, 1994 **Time-dependent Aspects of Fracture in Ice** Mark Bradley Kavanagh, 2018 An important aspect of ice fracture that is yet to be fully resolved in determining the loads and pressures during an interaction with ice is the presence and growth of fractures Practical applications include icebreakers ramming into ice pack or structures operating in ice prone regions Existing models often use a simplified view of ice mechanics often based on only the elastic properties which tend to overestimate the strength of the ice It has long been known that ice exhibits time dependent properties including its strength This is known from ship ramming experience as well as field and laboratory experiments Accounting for these time dependent aspects of ice behaviour would allow for a more analytical approach to interaction modelling and complement the empirical data that is used currently in design practice The aim of this thesis is to provide a better understanding of ice fracture that occurs during an interaction To better understand the viscoelastic properties of ice an extensive review of the literature was performed In particular an in depth review of linear elastic fracture mechanics was performed as it is critical to the foundations of the viscoelastic fracture theory To guide the development of a new viscoelastic fracture model three sets of experiments were performed The first was an indentation series scaled down from similar field experiments that displayed several fracture properties of ice These properties were rate dependent fracture delayed fracture and scale effects The next two series designed to study a single crack used ice samples under 4 point bending The first of these were constant loading rate test to further study the rate dependent fracture properties of ice resulting in ice that is weaker under faster loading in a decreasing power law relationship The second of these applied constant loads just below the breaking point to show that ice undergoes delayed fracture The data suggests a decreasing power law between applied load and time to failure for these samples Building on previous works in viscoelastic fracture theory and making use of the

insights gained from the experiments a new model has been developed to predict the fracture properties of ice The model accounts for the delayed fracture of ice and provides insights into the time dependent fracture properties of ice as was seen in the laboratory and field experiments The model based on viscoelastic theory was shown to reasonably model time to failure for ice beams under constant load as well as the fracture strength of ice beams under different loading rates The model besides expanding the old theories to beam bending geometries was also shown to work for compact tension specimens with a few minor changes

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