Jaroslav Pokluda Pavel Sandera



Micromechanisms of Fracture and Fatigue

In a Multiscale Context



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Micromechanisms of Fracture and Fatique Jaroslav Pokluda, Pavel Šandera, 2010-05-27 Micromechanisms of Fracture and Fatigue forms the culmination of 20 years of research in the field of fatigue and fracture It discusses a range of topics and comments on the state of the art for each The first part is devoted to models of deformation and fracture of perfect crystals Using various atomistic methods the theoretical strength of solids under simple and complex loading is calculated for a wide range of elements and compounds and compared with experimental data The connection between the onset of local plasticity in nanoindentation tests and the ideal shear strength is analysed using a multi scale approach Moreover the nature of intrinsic brittleness or ductility of perfect crystal lattices is demonstrated by the coupling of atomistic and mesoscopic approaches and compared with brittle ductile behaviour of engineering materials. The second part addresses extrinsic sources of fracture toughness of engineering materials related to their microstructure and microstructurally induced crack tortuosity Micromechanisms of ductile fracture are also described in relation to the fracture strain of materials Results of multilevel modelling including statistical aspects of microstructure are used to explain remarkable phenomena discovered in experiments In the third part of the book basic micromechanisms of fatigue cracks propagation under uniaxial and multiaxial loading are discussed on the basis of the unified mesoscopic model of crack tip shielding and closure taking both microstructure and statistical effects into account Applications to failure analysis are also outlined and an attempt is made to distinguish intrinsic and extrinsic sources of materials resistance to fracture Micromechanisms of Fracture and Fatigue provides scientists researchers and postgraduate students with not only a deep insight into basic micromechanisms of fracture behaviour of materials but also a number of engineering applications Fracture and Fatigue J. C. Radon, 2017-01-31 Fracture and Fatigue Elasto Plasticity Thin Sheet and Micromechanisms Problems covers the proceedings of the Third Colloquium on Fracture The book discusses the development and applications of fracture mechanics The contents of the text are organized according to the areas of concerns The first part deals with elasto plastic fracture mechanics which includes topics such as fracture mechanics in the elastic plastic regime and sizing of the geometry dependence and significance of maximum load toughness values Part II covers the micromechanisms of fracture which includes the aspects of crack growth under monotonic loading and the effect of secondary hardening on the fracture toughness of a bainitic microstructure Part III concerns itself with thin sheet fracture mechanics which includes R curves evaluation for center cracked panels and use of the R curve for design with contained yield The book will be of great interest to researchers and professionals whose work involves fracture mechanics Micromechanisms of Fracture and Fatigue-Crack Growth in Bulk Metallic Glass Alloys ,1998 The recent development of metallic alloy systems which can be processed with an amorphous structure over large dimensions specifically to form metallic glasses at low cooling rates tilde 10 K s has permitted novel measurements of important mechanical properties. These include fatigue crack growth and

fracture toughness behavior representing the conditions governing the subcritical and critical propagation of cracks In the present study bulk plates of a Zr41 2 Ti13 8 Cu12 5 Ni10 Be22 5 alloy machined into 7 mm thick 33 mm wide compact tension specimens and fatique precracked following standard procedures revealed fracture toughness in the fully amorphous structure of KIc tilde 55 MPa square root m i e comparable with that of a high strength steel or aluminum alloy However annealing to induce partial and full crystallization was found to result in a drastic reduction in fracture toughness to 1 MPa square root m i e comparable with silica glass Under cyclic loading whereas crack propagation behavior of the bulk amorphous metal was similar to that observed in traditional steel and aluminum alloys the stress life S N properties of were markedly different As in more traditional crystalline metallic alloys the crack propagation mechanism in the metallic glass was associated with alternating blunting and resharpening of the crack tip as evidenced by striations on fatigue fracture surfaces Alternatively during S N tests flaws apparently initiated quite easily due to the lack of microstructural barriers which would normally provide local crack arrest points thereby giving rise to poor S N properties Fracture and Fatigue J. C. Radon, 1981 Fractography of Modern Engineering Materials John E. Masters, 1987 **Applied Mechanics Reviews** Modeling of Micromechanisms of Fatigue and Fracture in Hybrid Materials R. O. Ritchie, W. Yu, S. C. .1974 Siu, CALIFORNIA UNIV BERKELEY DEPT OF MATERIALS SCIENCE AND MINERAL ENGINEERING., 1988 The obvious benefits of the design of aerospace structures using lighter materials with high specific strengths and stiffness has led in recent vears to the development of numerous reinforced composite materials which have become serious commercial competitors to traditional monolithic metallic alloys While significant advances in processing technology have made the fabrication of such hybrid materials more of an economic reality their widespread use in airframes or other critical structures has in general been limited by serious deficiencies in particular mechanical properties such as ductility toughness and fatigue This problem is often compounded by the lack of fundamental studies which provide a rational basis for the underlying sources of crack propagation resistance in these materials and in particular which define the critical role of composite microstructure Accordingly the current program is aimed at studying the physics and micromechanisms of fracture toughness and particularly the fatigue crack growth resistance in laminate discontinuously reinforced and continuously reinforced metal matrix composites with special reference to the role of microstructure Keywords Fatigue Mechanics Fracture toughness Subcritical crack growth Metal Matrix Composites Laminates Fatique cracks Crack closure Crack bridging Aluminum alloys Magnesium alloys Crack propagation jes Fracture Mechanics Shantikumar Vasudevan Micromechanics of Defects in Solids T. Mura, 1987-11-30 This book stems from a course on Micromechanics Nair, 1989 that I started about fifteen years ago at Northwestern University At that time micromechanics was a rather unfamiliar subject Although I repeated the course every year I was never convinced that my notes have guite developed into a final manuscript because new topics emerged constantly requiring revisions and additions I finally came to realize that if this is

continued then I will never complete the book to my total satisfaction Meanwhile T Mori and I had coauthored a book in Japanese entitled Micromechanics published by Baifu kan Tokyo in 1975 It received an extremely favorable response from students and re searchers in Japan This encouraged me to go ahead and publish my course notes in their latest version as this book which contains further development of the subject and is more comprehensive than the one published in Japanese Micromechanics encompasses mechanics related to microstructures of materials The method employed is a continuum theory of elasticity yet its applications cover a broad area relating to the mechanical behavior of materi als plasticity fracture and fatigue constitutive equations composite materi als polycrystals etc These subjects are treated in this book by means of a powerful and unified method which is called the eigenstrain method In particular problems relating to inclusions and dislocations are most effectively analyzed by this method and therefore special emphasis is placed on these topics

Scientific and Technical Aerospace Reports ,1994 Mechanics of Fatigue Vladimir V. Bolotin, 1999-06-24 Mechanics of Fatigue addresses the range of topics concerning damage fatigue and fracture of engineering materials and structures The core of this resource builds upon the synthesis of micro and macro mechanics of fracture In micromechanics both the modeling of mechanical phenomena on the level of material structure and the continuous approach are based on the use of certain internal field parameters characterizing the dispersed micro damage This is referred to as continuum damage mechanics The author develops his own theory for macromechanics called analytical fracture mechanics. This term means the system cracked body loading or loading device is considered as a mechanical system and the tools of analytical rational mechanics are applied thoroughly to describe crack propagation until the final failure Chapter discuss preliminary information on fatigue and engineering methods for design of machines and structures against failures caused by fatigue fatigue crack nucleation including microstructural and continuous models theory of fatigue crack propagation fatigue crack growth in linear elastic materials subject to dispersed damage fatigue cracks in elasto plastic material including crack growth retardation due to overloading as well as quasistationary approximation fatigue and related phenomena in hereditary solids application of the theory fatigue crack growth considering environmental factors unidirectional fiber composites with ductile matrix and brittle initially continuous fibers laminate composites Mechanics of Fatigue serves students dealing with mechanical aspects of fatigue conducting research in fracture mechanics structural safety mechanics of composites as well as modern branches of mechanics of solids and structures Advances in Research on the Strength and Fracture of Materials D.M.R. Taplin, 2013-10-22 Advances in Research on the Strength and Fracture of Materials Volume 1s An Overview contains the proceedings of the Fourth International Conference on Fracture held at the University of Waterloo Canada in June 1977 The papers review the state of the art with respect to fracture in a wide range of materials such as metals and alloys polymers ceramics and composites This volume is comprised of 40 chapters and opens with a discussion on progress in the development of elementary fracture mechanism maps and their application to metal deformation processes along with

micro mechanisms of fracture and the fracture toughness of engineering alloys The next section is devoted to the fracture of large scale structures such as steel structures aircraft cargo containment systems nuclear reactors and pressure vessels Fracture at high temperatures and in sensitive environments is then explored paying particular attention to creep failure by cavitation under non steady conditions the effects of hydrogen and impurities on brittle fracture in steel and mechanism of embrittlement and brittle fracture in liquid metal environments The remaining chapters consider the fracture of non metallic materials as well as developments and concepts in the application of fracture mechanics This book will be of interest to metallurgists materials scientists and structural and mechanical engineers

Fracture and Fatigue J. C. Radon, 19??

Fatigue Fracture Micromechanisms in Poly(Methyl Methacrylate) of Broad Molecular Weight Distribution RW. Hertzberg, J. Janiszewski, JA. Manson, 1981 Scanning electron microscopy was used to examine the fatigue fracture surfaces of poly methyl methacrylate of varying molecular weight MW and molecular weight distribution The specimens had been synthesized to incorporate various perpertions of high and low MW tails in high medium and low MW matrixes In specimens with a high MW matrix increased proportions of low MW additions resulted in higher fatigue crack growth rates and a gradual shift in the appearance of the fracture surface toward that of a low MW matrix specimen with a small addition of a high MW specie Crack advance was continuous with fatigue striation widths corresponding to the macroscopically measured growth increment associated with each loading cycle In low MW matrixes addition of medium and high MW species resulted in attenuated crack growth rates and resulting longer life With less than 2 percent of the medium and high MW species crack advance was by a discontinuous mode with each growth increment equal to the size of the plastic zone at the crack tip At high K levels discontinuous growth bands took on a scalloped appearance while maintaining a second power dependence between bandwidth and K Comprehensive Hard Materials Daniele Mari, Luis Miguel, Christoph E. Nebel, 2014-02-01 Comprehensive Hard Materials Three Volume Set deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds Articles include the technologies of powder production including their precursor materials milling granulation cold and hot compaction sintering hot isostatic pressing hot pressing injection moulding as well as on the coating technologies for refractory metals hard metals and hard materials The characterization testing quality assurance and applications are also covered Comprehensive Hard Materials provides meaningful insights on materials at the leading edge of technology It aids continued research and development of these materials and as such it is a critical information resource to academics and industry professionals facing the technological challenges of the future Hard materials operate at the leading edge of technology and continued research and development of such materials is critical to meet the technological challenges of the future Users of this work can improve their knowledge of basic principles and gain a better understanding of process structure property relationships With the convergence of nanotechnology coating techniques and functionally

graded materials to the cognitive science of cemented carbides cermets advanced ceramics super hard materials and composites it is evident that the full potential of this class of materials is far from exhausted This work unites these important areas of research and will provide useful insights to users through its extensive cross referencing and thematic presentation To link academic to industrial usage of hard materials and vice versa this work deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds Micromechanisms of Fatique Crack Growth and Fracture Toughness in Metal Matrix Composites David L. Davidson, SOUTHWEST RESEARCH INST SAN ANTONIO TX., 1989 A detailed micromechanics analysis has been performed on a composite of 2014 aluminum alloy matrix with 15 vol % particulate SiC This composite was manufactured by the Dural Co by casting and extrusion The matrix alloy was peak aged before testing The microstructure was found to contain about 3% intermetallic particles in addition to those expected for this material Fatigue cracks were grown from approximately threshold to rapid fracture stress intensities Fatigue cracks growth rates and fracture toughness were measured Analyses of the crack tips were performed by stereoimaging at low and intermediate stress intensities and just prior to the onset of rapid fracture Detailed strain maps were derived and considerable influence of SiC on strain was found Analyses of microcracks near the main crack were made and found to have only a small influence on fracture Key words Metal matrix composites Silicon carbide reinforcement Fatique crack growth Fracture toughness Particulate strengthening Crack growth micromechanisms jes Handbook of Thermal Process Modeling Steels Cemil Hakan Gur, Jiansheng Pan, 2008-12-22 An Emerging Tool for Pioneering Engineers Co published by the International Federation of Heat Treatment and Surface Engineering Thermal processing is a highly precise science that does not easily lend itself to improvements through modeling as the computations required to attain an accurate prediction of the microstructure and properties of work pieces is sophisticated beyond the capacity of human calculation Over the years any developments in thermal processes relied largely on empiricism and traditional practice but advancements in computer technology are beginning to change this Enhances the quest for process optimization Comprehensive and authoritative the Handbook of Thermal Process Modeling of Steels provides practicing engineers with the first complete resource that meets the needs of both those new to modeling and those hoping to profit from advances in the field Written by those with practical experience it demonstrates what is involved in predicting material response under industrial rather than laboratory conditions and consequently gives heightened insight into the physical origins of various aspects of materials behavior Encourages both the understanding and the use of real time process control Before the advent of sophisticated computers the errors inherent in computational predictions made modeling an ineffective gamble rather than a cost saving tool Today modeling shows great promise in both materials performance improvements and process cost reduction The basic mathematical models for thermal processing simulation gradually introduced to date have yielded enormous advantages for

some engineering applications however much research needs to e accomplished as existing models remain highly simplified by comparison with real commercial thermal processes Yet this is quickly changing Ultimately those engineers who can move this tool of improvement out of the lab and onto the factory floor will discover vast opportunities to gain a competitive edge

The Shock and Vibration Digest ,1981-07 Fatigue Fracture Micromechanisms in Engineering Plastics RW. Hertzberg, JA. Manson, MD. Skibo, 1979 This paper deals with an examination of fatigue micromechanisms present in polymers of various chemistry and microstructure At low stress intensity levels in several amorphous homopolymers poly methymethacrylate PMMA polycarbonate PC poly vinyl chloride PVC polystyrene PS and polysulfone PSF each with viscosity average molecular weight M v in the range 1 x 105 ERDA Energy Research Abstracts ,1989

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