

Arun Shukla author



Dynamic Fracture Mechanics

Dynamic Fracture

L. B. Freund



Dynamic Fracture:

Dynamic Fracture K. Ravi-Chandar, 2004-10-16 Dynamic fracture in solids has attracted much attention for over a century from engineers as well as physicists due both to its technological interest and to inherent scientific curiosity. Rapidly applied loads are encountered in a number of technical applications. In some cases such loads might be applied deliberately as for example in problems of blasting, mining and comminution or fragmentation; in other cases such dynamic loads might arise from accidental conditions. Regardless of the origin of the rapid loading, it is necessary to understand the mechanisms and mechanics of fracture under dynamic loading conditions in order to design suitable procedures for assessing the susceptibility to fracture. Quite apart from its repercussions in the area of structural integrity, fundamental scientific curiosity has continued to play a large role in engendering interest in dynamic fracture problems. In-depth coverage of the mechanics, experimental methods, practical applications, Summary of material response of different materials, Discussion of unresolved issues in dynamic fracture.

Dynamic Fracture Mechanics Arun Shukla, 2006 Covering a wide variety of topics in dynamic fracture mechanics, this volume presents state-of-the-art experimental techniques and theoretical analysis on dynamic fracture in standard and exotic materials. Written by world-renowned researchers, this valuable compendium contains eleven chapters on crack initiation, crack propagation, crack arrest, crack stress wave interactions, and experimental, analytical, and numerical methods in dynamic fracture mechanics. Contents: Modeling Dynamic Fracture Using Large Scale Atomistic Simulations; H. J. Gao; Dynamic Crack Initiation Toughness; D. Rittel; The Dynamics of Rapidly Moving Tensile Cracks in Brittle Amorphous Material; J. Fineberg; Optical Methods for Dynamic Fracture Mechanics; H. V. Tippur; On the Use of Strain Gages in Dynamic Fracture; V. Parameswaran; Dynamic and Crack Arrest Fracture Toughness; R. E. Link; Dynamic Fracture in Graded Materials; A. Shukla; Dynamic Fracture Initiation Toughness at Elevated Temperatures with Application to the New Generation of Titanium Aluminides Alloys; M. Shazly et al; Dynamic Fracture of Nanocomposite Materials; A. Shukla et al. Readership: Researchers, practitioners, and graduate students in fracture mechanics and materials science.

Dynamic fracture M.L. Williams, W.G. Knauss, 2012-12-06 From time to time the International Journal of Fracture has presented matters thought to be of special interest to its readers. In previous special issues, December 1980 and April 1981, Dr. H. W. Liu as Guest Editor presented a series of review papers dealing with fatigue processes and characteristics in metals and non-metals. Continuing this policy, which is consistent with our stated objectives, a second review dealing with time dependence in the fracture process, including the effect of material inertia but essentially excluding very strong shock effects in solids, has been assembled under the generic term dynamic fracture. We hope that the ensuing state-of-the-art review will yield an instructive and timely product which readers will find useful. To assist us in presenting this subject, we have prevailed upon a well-known worker in dynamic fracture, Dr. W. G. Knauss, Professor of Aeronautics and Applied Mechanics, California Institute of Technology, to act as Guest Editor for this special double issue. On behalf of the editors and publisher, I wish to express our

indebtedness to Professor Knauss and his invited authors for undertaking this special effort *Dynamic Fracture Mechanics* L. B. Freund,1998-03-28 This volume focuses on the development and analysis of mathematical models of fracture phenomena Dynamics of Fracture N. Morozov,Y. Petrov,2013-06-05 In this book a new phenomenological approach to brittle medium fracture initiation under shock pulses is developed It provides an opportunity to estimate fracture of media with and without macrodefects A qualitative explanation is thus obtained for a number of principally important effects of high speed dynamic fracture that cannot be clarified within the framework of previous approaches It is possible to apply this new strategy to resolve applied problems of disintegration erosion and dynamic strength determination of structural materials Specialists can use the methods described to determine critical characteristics of dynamic strength and optimal effective fracture conditions for rigid bodies This book can also be used as a special educational course on deformation of materials and constructions and fracture mechanics *Dynamic Fracture Mechanics* L. B. Freund,1990 **Dynamic Fracture Toughness: Papers** Welding Institute,American Society for Metals,1977 **Crack Dynamics in Metallic Materials** J.R. Klepaczko,2014-05-04 This book provides an up to date knowledge on theory and experimental results of rate dependent fracture processes in metallic materials The objective is to expose the current status of a growing branch of fracture mechanics called generally Dynamic Fracture Crack dynamics takes into account not only the effects of inertia but also rate sensitivity of a material under consideration This volume has been prepared by four leading authorities in fracture dynamics D R Curran J F Kalthoff J R Klepaczko and F Nilsson A broad range of problem is covered dynamic fracture theory application of dynamic fracture mechanics dynamic crack initiation and microstatistical fracture mechanics in dynamic fracture The book in its present format may serve as a text supplement in lecturing on fracture mechanics On the other hand it may serve as an instructional aid in engineering of fracture prevention Dynamic Fracture Mechanics P. H. Wen,1996 This work describes the formulation and numerical implementation of both two and three dimensional indirect boundary element methods for example the fictitious load method and the displacement discontinuity method It also provides an analysis of crack problems in elastostatic and elastodynamic fracture mechanics and methods for evaluating weight functions for dynamic problems

High-Pressure Shock Compression of Solids II Lee Davison,Dennis E. Grady,Mohsen Shahinpoor,2012-12-06 This volume concerns the fracture and fragmentation of solid materials that occurs when they are subjected to extremes of stress applied at the highest possible rates The plan for the volume is to address experimental theoretical and computational aspects of high rate dynamic fracture and fragmentation with emphasis on recent work We begin with several chapters in which the emphasis falls on experimental methods and observations These chapters address both macroscopic responses and the microscopic cause of these responses This is followed by several chapters emphasizing modeling the physical explanation and mathematical representation of the observations Some of the models are deterministic while others focus on the stochastic aspects of the observations Often the overall objective of investigation of dynamic fracture and fragmentation

phenomena is provision of a means for predicting the entire course of an event that begins with a stimulus such as an impact and proceeds through a complicated deformation and fracture process that results in disintegration of the body and formation of a rapidly expanding cloud of debris fragments Analysis of this event usually involves development of a continuum theory and computer code that captures the experimental observations by incorporating models of the important phenomena into a comprehensive description of the deformation and fracture process It is to this task that the work of the last few chapters is devoted Dynamic Fracture Mechanics, 2005* **Impact and Dynamic Fracture of Polymers and Composites (ESIS 19)** J. G. Williams, A. Pavan, 1995 Impact and Dynamic Fracture of Polymers and Composites consist of thirty nine reviewed and revised papers presented at the European Symposium on Impact and Dynamic Fractures of Polymers and composites held in Sardinia The volume is divided into four sections The first section deals with experimental methods and concepts in high speed loading Dynamic crack propagation is described in section 2 and rate dependence and impact fracture toughness of plastics is dealt with in section 3 the last section is concerned with the impact damage of composites Finally an extensive index facilitates the location of specific information for readers This volume is the nineteenth in a series of special technical publications produced by the European Structural Integrity Society It is an informative and original piece of work and can be thoroughly recommended to engineering designers manufacturing engineers and material scientists Indeed Impact and Dynamic Fracture of Polymers and Composites makes a significant contribution to the literature on this important subject and will make essential reading to all those involved in this field of mechanical engineering

Dynamic Fracture of Piezoelectric Materials Petia Dineva, Dietmar Gross, Ralf Müller, Tsviatko Rangelov, 2014-01-30 Dynamic Fracture of Piezoelectric Materials focuses on the Boundary Integral Equation Method as an efficient computational tool The presentation of the theoretical basis of piezoelectricity is followed by sections on fundamental solutions and the numerical realization of the boundary value problems Two major parts of the book are devoted to the solution of problems in homogeneous and inhomogeneous solids The book includes contributions on coupled electro mechanical models computational methods its validation and the simulation results which reveal different effects useful for engineering design and practice The book is self contained and well illustrated and it serves as a graduate level textbook or as extra reading material for students and researchers **Dynamic Fracture Mechanics Analysis for an Edge Delamination Crack**, 1994 *Proceedings of an international conference on Dynamic Crack Propagation* George C. Sih, 2013-06-29 The planning meeting for a conference on Dynamic Crack Propagation was held at MIT in February 1971 and attended by research workers from several industrial governmental and academic organizations It was felt that a more specialized meeting would provide a better opportunity for both U S and foreign researchers to exchange their ideas and views on dynamic fracture a subject which is seldom emphasized in national or international fracture conferences Dynamic crack propagation has been a concern to specialists in many fields continuum mechanics metallurgy geology polymer chemistry orthopedics applied

mathematics as well as structural design and testing It impinges on a wide variety of problems such as rock breaking and earthquakes pressure vessels and line pipes comminution and the performance of armament and ordnance etc Advances have been numerous covering theories and experiments from both the microscopic and macroscopic points of view Hence the need for comparing the theoretical and experimental results and bridging the gaps between the atomistic and continuum approaches must be constantly emphasized It also appeared that the overall problem of dynamic fracture could benefit from a consolidation of crack models proposed for the various types of materials metals ceramics composites rocks glasses polymers and biomaterials

A Photoelastic Characterization of Dynamic Fracture, 1976 **Advances in Fracture Research: Brittle fracture ; Ductile fracture ; Dynamic fracture**, 1989 *Springer Handbook of Experimental Solid Mechanics* William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The Springer Handbook of Experimental Solid Mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience *Dynamic Fracture Mechanics: Propagating cracks* Vladimir Zalmanovich Parton, 1989 Dynamic Fracture Mechanics V. Z. Parton, Vladimir Zalmanovich Parton, Vadim Grigor'evich Boriskovskii, 1989-12-01 Addresses crack propagation with constant or variable velocity in elastic as well as elastic plastic bodies and elastic lattice Recent material on experimental methods in dynamic fracture mechanics has increased dramatically and this work provides important emphasis on these methods

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Dynamic Fracture Introduction

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