



# Dynamic Fracture Mechanics

**M.L. Williams, W.G. Knauss**



## **Dynamic Fracture Mechanics:**

**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* L. B. Freund, 1998-03-28 This volume focuses on the development and analysis of mathematical models of fracture phenomena **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 Mechanics** L. B. Freund, 1990 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, 2005\*

**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* 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

*Dynamic Fracture Mechanics* M. H. Aliabadi, 1995 A review of dynamic fracture mechanics with particular emphasis on computational methods This text covers finite elements finite volume and boundary element methods providing fundamental concepts of advances in computational methods as well as the algorithms for use in practical applications **Whither Dynamic Fracture Mechanics?** M. F. Kanninen, BATTELLE COLUMBUS LABS OH., 1980 The experimental basis for the necessity of a dynamic characterization of crack run arrest events is reviewed Current anomalies in the use of linear elastodynamic treatments apparent geometry and load rate dependence of the dynamic fracture toughness property are discussed A review of concurrent work in plastic fracture mechanics is given as a possible basis for circumventing these anomalies Author **Dynamic Fracture Mechanics** Fred Nilsson, Björn Brickstad, 1983 *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 Dynamic Fracture Mechanics: Stationary cracks Vladimir Zalmanovich Parton, Vadim Grigor'evich Boriskovskii, 1989 *Static and Dynamic Fracture Mechanics* M. H. Aliabadi, C. A. Brebbia, Vladimir Zalmanovich Parton, 1994 **Dynamic Fracture Toughness: Papers** Welding Institute, American Society for Metals, 1977 **Dynamic Fracture Mechanics** Aliabadi MH Ed, 1995 *Numerical Methods in Dynamic Fracture Mechanics* Commission of the European Communities, 1987

*Application of Dynamic Fracture Mechanics to Composites*, 1998 The report is divided into two parts one covering the work on orthotropic composites and the other covering the work on isotropic metals Each part consists of two chapters which stand alone each having been submitted accepted or prepared for publication in a referred journal Separate bibliographies are given for parts 1 and 2 The work on composites has succeeded in producing fundamental dynamic Green's functions solutions for cracks in orthotropic materials These solutions may be used in calculating the stress intensity factor history on stationary cracks subjected to dynamic loading and may be very useful in predicting crack initiation under such conditions Currently experimental investigation of the application of these solutions to crack initiation in composites in two different configurations is beginning It is expected that a report on that work will be submitted next year The work on metals has been successful in experimentally demonstrating the usefulness of the dynamic stress intensity factor in predicting shear failure in metals under impact loads This demonstration is predicted on the assumption that small scale yielding conditions exist in the experiments The last chapter reflects an ongoing experimental investigation into the validity of that assumption It seems to suggest that the assumption is correct but further more conclusive results are sought

*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** Book Review: Unveiling the Power of Words

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