



Spall fracture

Shock Wave

Force

High density

Reflective expansion wave

Low density

Rice grain

# Spall Fracture

**Kozo Kawata, Jumpei Shioiri**



## **Spall Fracture:**

**Spall Fracture** Tarabay Antoun, Lynn Seaman, Donald R Curran, Gennady I. Kanel, Sergey V. Razorenov, Alexander V. Utkin, 2006-04-06 Shock induced dynamic fracture of solids is of practical importance in many areas of materials science chemical physics engineering and geophysics This book by an international roster of authors comprises a systematic account of the current state of research in the field integrating the large amount of work done in the former Soviet Union with the work done in the West Topics covered include Wave propagation experimental techniques and measurements spallation of materials of different classes metals ceramics glasses polymers constitutive models of fracture processes and computer simulations

**Spall Fracture** Tarabay Antoun, Lynn Seaman, Donald R. Curran, 2014-01-15 **SPALL FRACTURE AND DYNAMIC RESPONSE OF MATERIALS.** ,1968 The report describes the time dependent fracture or spalling of materials as a result of dynamic response to shock wave or impulse loading From stress wave and fracture mechanics theory and assuming knowledge of the dynamic properties of the material theories are developed to predict the stress at the spall plane The cumulative energy stress rate and bond breaking models for the prediction of spall fracture are described along with the basic criteria of each model

Fundamentals of Shock Wave Propagation in Solids Lee Davison, 2008-05-07 My intent in writing this book is to present an introduction to the thermo chanical theory required to conduct research and pursue applications of shock physics in solid materials Emphasis is on the range of moderate compression that can be produced by high velocity impact or detonation of chemical explosives and in which elastoplastic responses are observed and simple equations of state are applicable In the interest of simplicity the presentation is restricted to plane waves producing uniaxial deformation Although applications often volve complex multidimensional deformation fields it is necessary to begin with the simpler case This is also the most important case because it is the usual setting of experimental research The presentation is also restricted to theories of material response that are simple enough to permit illustrative problems to be solved with minimal recourse to numerical analysis The discussions are set in the context of established continuum mechanical principles I have endeavored to define the quantities encountered with some care and to provide equations in several convenient forms and in a way that lends itself to easy reference Thermodynamic analysis plays an important role in continuum mechanics and I have included a presentation of aspects of this subject that are particularly relevant to shock physics The notation adopted is that conventional in expositions of modern continuum mechanics insofar as possible and variables are explained as they are encountered Those experienced in shock physics may find some of the notation unconventional

**Material Properties under Intensive Dynamic Loading** Mikhail V. Zhernokletov, B. L. Glushak, 2007-07-16 Understanding the physical and thermomechanical response of materials subjected to intensive dynamic loading is a challenge of great significance in engineering today This volume assumes the task of gathering both experimental and diagnostic methods in one place since not much information has been previously disseminated in the scientific literature

Constitutive Relation in High/Very

High Strain Rates Kozo Kawata, Jumpei Shioiri, 2013-11-11 The IUTAM Symposium on Constitutive Relation in High Very High Strain Rates CRHVHSR was held October 16-19 1995 at Seminar House Science University of Tokyo under the sponsorship of IUTAM Japan Society for the Promotion of Science The Commemorative Association for the Japan World Exposition 1970 Inoue Foundation for Science The Japan Society for Aeronautical and Space Sciences and Science University of Tokyo The proposal to hold the symposium was accepted by the General Assembly of IUTAM held in Haifa Israel in August 1992 and the scientists mentioned below were appointed by the Bureau of IUTAM to serve as members of the Scientific Committee The main object of the symposium was to make a general survey of recent developments in the research of constitutive relations in high and very high strain rates and related problems in high velocity solid mechanics and to explore further new ideas for dealing with unresolved problems of a fundamental nature as well as of practical importance The subjects covered theoretical experimental and numerical fields in the above mentioned problems in solids covering metals polymers ceramics and composites Emphasis was given to the following fields 1 Material characterization of solids in high velocity deformation experimental techniques typical data obtained by these techniques modeling and constitutive relations 2 Strain rate dependent elasto visco plastic stress waves 3 Crack initiation propagation and dynamic fracture toughness 4 Dynamic stress concentration 5 Structural dynamics in impact and constitutive relations of solids 6

**Rock Dynamics and Applications** 3 Charlie Li, Xing Li, Zong-Xian Zhang, 2018-06-18 Rock Dynamics Experiments Theories and Applications is a collection of scientific and technical papers presented at the Third International Conference on Rock Dynamics and Applications RocDyn 3 Trondheim Norway 26-27 June 2018 The papers in the book reflect the recent developments in experiment and theory as well as engineering applications of rock dynamics Rock dynamics studies the response of rock and rock masses under dynamic loading and during the state transition from static loading to kinetic movement It also includes the study of engineering countermeasures to dynamic instability of rock and rock masses The topics in the book include Dynamic theories Numerical simulation Propagation of stress waves Dynamic tests of rock Stability of underground openings under dynamic loading Rockburst Seismic monitoring Dynamic rock support Blasting Earthquake related rock structure damage etc Applications such as rockburst dynamic rock support seismic monitoring blasting and earthquake related rock structure damage are paid special attention in Rock Dynamics Experiments Theories and Applications The papers from specialists both from mining and tunnelling branches discuss commonly interested dynamic issues Their experience and knowledge in the application of rock dynamics are extremely valuable for all academics engineers and professionals who work with rock dynamics

**Porosity and Spall Fracture of Shock Loaded Metals** Coy M. Glass, Victor A. Greenhut, Priscilla W. Kingman, BALLISTIC RESEARCH LABS ABERDEEN PROVING GROUND MD., 1976 Common to encounters between warhead and armor at extremes of strength and ductility is an interplay between plastic flow and fracture failure of the interacting materials The optimum effectiveness of either a penetrating device or armor is dictated by controlling this interplay A mechanism for shock

fracture has been delineated covering the material reactions from the sub microscopic to the macroscopic scale showing how the various observed phenomena are related A simple shock stress criterion is not sufficient to describe fracture Combinations of stress and time are required for creation migration and condensation of vacancies to produce pores which produce fracture nucleation sites Vacancies are created during the compressive cycle but more are required for producing fracture These come from the interaction of dislocations in the micro cell walls during the tensile shock phase of the cycle It is now possible to calculate energies required to produce failure migration speeds of vacancies and to arrive at a quantitative description of the process based on cell sizes vacancy energetics and effective stress results This is being done to provide shock fracture criteria The average size of spall fragments should be predictable based on studies of dislocation cells in metals subjected to compressive shocks and basic data on vacancy migration in the metal

**Dynamic Response of Advanced Ceramics** Ghatu Subhash, Amnaya Awasthi, Dipankar Ghosh, 2021-05-04 Dynamic Response of Advanced Ceramics Discover fundamental concepts and recent advances in experimental analytical and computational research into the dynamic behavior of ceramics In Dynamic Response of Advanced Ceramics an accomplished team of internationally renowned researchers delivers a comprehensive exploration of foundational and advanced concepts in experimental analytical and computational aspects of the dynamic behavior of advanced structural ceramics and transparent materials The book discusses new techniques used for determination of dynamic hardness and dynamic fracture toughness as well as edge on impact experiments for imaging evolving damage patterns at high impact velocities The authors also include descriptions of the dynamic deformation behavior of icosahedral ceramics and the dynamic behavior of several transparent materials like chemically strengthened glass and glass ceramics The developments discussed within the book have applications in everything from high speed machining to cutting grinding and blast protection Readers will also benefit from a presentation of emerging trends and directions in research on this subject as well as current challenges in experimental and computational domains including An introduction to the history of ceramic materials and their dynamic behavior including examples of material response to high strain rate loading An exploration of high strain rate experimental techniques like 1D elastic stress wave propagation techniques shock waves and impact testing Discussions of the static and dynamic responses of ceramics and the shock response of brittle solids An overview of deformation mechanisms during projectile impact on a confined ceramic including damage evolution during the nonpenetration and penetration phases Perfect for researchers scientists and engineers working on ballistic impact and shock response of brittle materials Dynamic Response of Advanced Ceramics will also earn a place in the libraries of industry personnel studying impact resistant solutions for a variety of applications

**Transactions of the New York Academy of Sciences** New York Academy of Sciences, 1974 **Journal of the American Ceramic Society** American Ceramic Society, 1919 **Mechanical Properties in Materials 1984**, Institute of Physics (Great Britain), 1984 **Journal of the Society of Glass Technology** Society of Glass Technology, 1926

**Blast Furnace and Steel Plant** ,1930      **Physics and Mechanics of Finite Plastic and Viscoplastic Deformation**  
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Society of glass technology, Sheffield, Eng,1926      **3rd International Conference on Mechanical and Physical**  
**Behaviour of Materials Under Dynamic Loading** ,1991      *Meso-scale Modeling of Spall in a Heterogeneous Two-phase*  
*Material* Harry Keo Springer,2008      **Shock Compression of Condensed Matter--1989** American Physical Society,1990  
This book presents the most up to date collection of research activities in the area of high pressure shock compression  
Current reviews and original research papers are given on theoretical and experimental aspects of high pressure equations  
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