

Material Behavior Under High Stress and Ultrahigh Loading Rates

Edited by John Mescall and Volker Weiss

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Material Behavior Under High Stress And Ultrahigh Loading Rates

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Material Behavior Under High Stress And Ultrahigh Loading Rates:

Material Behavior Under High Stress and Ultrahigh Loading Rates John Mescall, Volker Weiss, 2013-03-07 The Army Materials and Mechanics Research Center in cooperation with the Materials Science Group of the Department of Chemical Engineering and Materials Science of Syracuse University has been conducting the Annual Sagamore Army Materials Research Conference since 1954 The specific purpose of these conferences has been to bring together scientists and engineers from academic institutions industry and government who are uniquely qualified to explore in depth a subject of importance to the Department of Defense the Army and the scientific community The proceedings of this conference entitled MATERIAL BEHAVIOR UNDER HIGH STRESS AND ULTRAHIGH LOADING RATES will be published in two parts The topics covered in the present volume include dynamic plasticity adiabatic shear localized deformation and dynamic fracture mechanics Papers dealing with ordnance applications projectile launch environment and recent work in progress will appear as an AMMRC Technical Report and will have more limited distribution in accordance with recent Army guidelines The Conference Chairmen are particularly grateful to the members of the Program Committee We wish also to acknowledge the assistance of Mr Charles Polley of the Army Materials and Mechanics Research Center Mr Robert Sell Ms Helen Brown DeMascio and Ms Mary Ann Holmquist of Syracuse University throughout the conference planning stages and the publication of the text The continued active interest in and support of these conferences by Dr E Wright and Col George Sibert Direct and Deputy Director Commander respectively of the Army Materials and Mechanics Research Center is appreciated

Material Behavior Under High Stress and Ultrahigh Loading Rates John Mescall, Volker Weiss, 1983-11-01 *Dynamic Behavior of Materials* Marc A. Meyers, 1994-10-28 Addresses fundamentals and advanced topics relevant to the behavior of materials under in service conditions such as impact shock stress and high strain rate deformations Deals extensively with materials from a microstructure perspective which is the future direction of research today

Handbook of Materials Behavior Models, Three-Volume Set Jean LeMaitre, 2001-11-17 This first of a kind reference handbook deals with nonlinear models and properties of material In the study the behavior of materials phenomena no unique laws exist Therefore researchers often turn to models to determine the properties of materials This will be the first book to bring together such a comprehensive collection of these models The Handbook deals with all solid materials and is organized first by phenomena Most of the materials models presented in an applications oriented fashion less descriptive and more practitioner geared making it useful in the daily working activities of professionals The Handbook is divided into three volumes Volume I Deformation of Materials introduces general methodologies in the art of modeling in choosing materials and in the so called size effect Chapters 2 5 deal respectively with elasticity and viscoelasticity yield limit plasticity and viscoplasticity Volume II Failures in Materials provides models on such concerns as continuous damage cracking and fracture and friction wear Volume III Multiphysics Behavior deals with multiphysics coupled behaviors Chapter s 10 and 11 are devoted to

special classes of materials composites biomaterials and geomaterials The different sections within each chapter describe one model each with its domain of validity its background its formulation the identification of material parameters for as many materials as possible and advice on how to implement or use the model The study of the behavior of materials especially solids is related to hundreds of areas in engineering design and control Predicting how a material will perform under various conditions is essential to determining the optimal performance of machines and vehicles and the structural integrity of buildings as well as safety issues Such practical examples would be how various new materials such as those used in new airplane hulls react to heat or cold or sudden temperature changes or how new building materials hold up under extreme earthquake conditions The Handbook of Materials Behavior Models Gathers together 117 models of behavior of materials written by the most eminent specialists in their field Presents each model s domain of validity a short background its formulation a methodology to identify the materials parameters advise on how to use it in practical applications as well as extensive references Covers all solid materials metals alloys ceramics polymers composites concrete wood rubber geomaterials such as rocks soils sand clay biomaterials etc Concerns all engineering phenomena elasticity viscoelasticity yield limit plasticity viscoplasticity damage fracture friction and wear Materials at High Strain Rates T.Z.

Blazynski,1987-07-31 Metallurgical Applications of Shock-Wave and High-Strain Rate Phenomena Lawrence E. Murr,Karl P. Staudhammer,Marc A. Meyers,2024-11-01 This book examines the explosive and related technologies in the context of metallurgical and materials processing and fabrication It is a record of the international exchange of information on the metallurgical and other material effects of shock wave and high strain rate phenomena *Macro- and Micro-Mechanics of High Velocity Deformation and Fracture* Kozo Kawata,Jumpei Shioiri,2012-12-06 The IUTAM Symposium on Macro and Micro Mechanics of High Velocity Deformation and Fracture MMMHVDF August 12 15 1985 was held at Science Council of Japan under the sponsor ship of IUTAM Science Council of Japan Japan Society for the Promotion of Science The Commemorative Association for the Japan World Exposition 1970 and The Japan Society for Aeronautical and Space Sciences The proposal of the symposium was accepted by the General Assembly of IUTAM and the scientists mentioned below were appointed by the Bureau of IUTAM to serve as member of the Scientific Committee The main object of the Symposium was to make a general survey of recent developments in the re search of high velocity solid mechanics and to explore further new ideas for dealing with unsettled problems of fundamental nature as well as of practical importance The subjects covered theoretical experimental and numerical fields in macro and micro mechanics associated with high velocity de formatio and fracture in soldis covering metals ceramics polymers and composites Advances in Ceramic Armor VIII, Volume 33, Issue 5 Jeffrey J. Swab,2012-11-29 The manuscripts contained in this issue of Ceramic Engineering and Science Proceedings were selected from among the more than seventy presentations at the Armor Ceramics Symposium The discussions are divided into three sections Modeling and dynamic behavior Transparent materials and Opaque materials Conducted during the 36th annual

International Conference on Advanced Ceramics and Composites ICACC this event is one of the premier global conferences for the latest developments in the fabrication characterization and application of ceramic materials to meet the needs of the military police and other public defense security and protection organizations Energy Research Abstracts ,1984

Computational Methods for Predicting Material Processing Defects M. Predeleanu,2014-06-28 The papers in this book deal with computational methods for predicting material processing defects Using recent advances in finite strain plasticity and viscoplasticity damage modelling bifurcation and instability theory fracture mechanics and computer numerical techniques new approaches to mechanical defect analysis are proposed Appropriate methods for explaining and avoiding the defects leading to fracture high porosity strain localization or undesirable geometrical imperfections are presented In addition some papers are devoted to new formulations and new calculation algorithms to be used for solving the forming problems Finally two papers deal with physical description of defects occurring in forming and cutting operations focusing on the academic and practical interest of these topics This is the first book to deal with the prediction of defects occurring in material forming processes it contains much of interest from both a theoretical and a practical viewpoint Advances in Ceramic Armor V, Volume 30, Issue 5 Jeffrey J. Swab,2009-12-17 The Armor Ceramics Symposium provides an annual forum for the presentation and discussion of unclassified information and ideas pertaining to the development and incorporation of ceramic materials for armor applications This collection of articles from the seventh edition of this symposium focused on Impact Penetration and Material Modeling Material Concepts Processes and Characterization the Application of NDE and Transparent Armor **Opportunities in Protection Materials Science and Technology for Future Army Applications** National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,National Materials Advisory Board,Committee on Opportunities in Protection Materials Science and Technology for Future Army Applications,2011-07-27 Armor plays a significant role in the protection of warriors During the course of history the introduction of new materials and improvements in the materials already used to construct armor has led to better protection and a reduction in the weight of the armor But even with such advances in materials the weight of the armor required to manage threats of ever increasing destructive capability presents a huge challenge Opportunities in Protection Materials Science and Technology for Future Army Applications explores the current theoretical and experimental understanding of the key issues surrounding protection materials identifies the major challenges and technical gaps for developing the future generation of lightweight protection materials and recommends a path forward for their development It examines multiscale shockwave energy transfer mechanisms and experimental approaches for their characterization over short timescales as well as multiscale modeling techniques to predict mechanisms for dissipating energy The report also considers exemplary threats and design philosophy for the three key applications of armor systems 1 personnel protection including body armor and helmets 2 vehicle armor and 3 transparent armor Opportunities in Protection Materials Science and Technology for Future

Army Applications recommends that the Department of Defense DoD establish a defense initiative for protection materials by design PMD with associated funding lines for basic and applied research The PMD initiative should include a combination of computational experimental and materials testing characterization and processing research conducted by government industry and academia

Mechanical Behaviour of Engineering Materials Y.M. Haddad, 2013-06-29 This monograph consists of two volumes and provides a unified comprehensive presentation of the important topics pertaining to the understanding and determination of the mechanical behaviour of engineering materials under different regimes of loading The large subject area is separated into eighteen chapters and four appendices all self contained which give a complete picture and allow a thorough understanding of the current status and future direction of individual topics Volume I contains eight chapters and three appendices and concerns itself with the basic concepts pertaining to the entire monograph together with the response behaviour of engineering materials under static and quasi static loading Thus Volume I is dedicated to the introduction the basic concepts and principles of the mechanical response of engineering materials together with the relevant analysis of elastic elastic plastic and viscoelastic behaviour Volume II consists of ten chapters and one appendix and concerns itself with the mechanical behaviour of various classes of materials under dynamic loading together with the effects of local and microstructural phenomena on the response behaviour of the material Volume II also contains selected topics concerning intelligent material systems and pattern recognition and classification methodology for the characterization of material response states The monograph contains a large number of illustrations numerical examples and solved problems The majority of chapters also contain a large number of review problems to challenge the reader The monograph can be used as a textbook in science and engineering for third and fourth undergraduate levels as well as for the graduate levels It is also a definitive reference work for scientists and engineers involved in the production processing and applications of engineering materials as well as for other professionals who are involved in the engineering design process

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

Advances in Ceramic Armor VII, Volume 32, Issue 5 Jeffrey J. Swab, 2011-11-11 This book is a collection of papers from The American Ceramic Society's 35th International Conference on Advanced Ceramics and Composites held in Daytona Beach Florida January 23-28 2011 This issue includes papers presented in the Armor Ceramics Symposium on topics such as Manufacturing High Rate Real Time Characterization Microstructural Design Nondestructive Characterization and Phenomenology and Mechanics of Ceramics Subjected to Ballistic Impact

Advances in Ceramic Armor IV Lisa Prokurat Franks, 2009-02-11 This volume provides a one stop resource compiling current research on ceramic armor and addressing the challenges facing armor manufacturers It is a collection of papers from The American Ceramic Society's 32nd International Conference on Advanced Ceramics and Composites January 27-February 1 2008 Topics include novel materials concepts for both vehicle and body armors transparent ceramics for impact resistance and more This is a valuable up to date resource for researchers in industry government or academia who are working with ceramic armor

Dynamic Behavior of Materials, Volume 1 Vijay Chalivendra, Bo Song, Daniel Casem, 2012-08-07 Dynamic Behavior of Materials Volume 1 Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics represents one of seven volumes of technical papers presented at the Society for Experimental Mechanics SEM 12th International Congress Exposition on Experimental and Applied Mechanics held at Costa Mesa California June 11-14 2012 The full set of proceedings also includes volumes on Challenges in Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials Imaging Methods for Novel Materials and Challenging Applications Experimental and Applied Mechanics 2nd International Symposium on the Mechanics of Biological Systems and Materials 13th International Symposium on MEMS and Nanotechnology and Composite Materials and the 1st International Symposium on Joining Technologies for Composites

Ceramic Armor Materials by Design James W. McCauley, Andrew Crowson, William A. Gooch, Jr., A. M. Rajendran, Stephan J. Bless, Kathryn Logan, Michael Normandia, Steven Wax, 2012-03-28 This proceedings book brings together 55 papers on ceramic armor presented by authorities from around the world covering topics such as ceramic armor development processing manufacturing and insertion This book will be of great interest to armor researchers in university industry and government laboratories as well as those industries involved in ceramic armor and high performance structural ceramics Papers were presented at PacRim IV An International Conference on Advanced Ceramics and Glasses Wailea Maui Hawaii USA 2001 650 pages

IUTAM Symposium on Field Analyses for Determination of Material Parameters — Experimental and Numerical Aspects P. Ståhle, K.G. Sundin, 2012-12-06 Proceedings of the IUTAM Symposium held in Abisko National Park Kiruna Sweden July 31-August 4 2000

Introduction To Adiabatic Shear Localization (Revised Edition) Bradley Dodd, Yilong Bai, 2014-08-14

Adiabatic shear bands are found in a variety of metals and other materials they cause rapid weakening due to energy concentration into narrow regions of the material This is the very first book on this important topic and the only true introduction to the subject An enhanced and updated student friendly edition of the authors 1992 book Adiabatic Shear Localization Occurrence Theories and Applications this seminal text now includes essential Further Reading sections in some chapters It explains adiabatic shear bands in a descriptive rather than a mathematical way with a quick reference section for readers wanting a more rapid introduction Entirely comprehensive the reader can dip into the chapters as suits his or her course material or research If you are a postgraduate materials scientist engineer physicist metallurgist or indeed any researcher in materials that undergo rapid deformation and failure this text is not to be missed

Reviewing **Material Behavior Under High Stress And Ultrahigh Loading Rates**: Unlocking the Spellbinding Force of Linguistics

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