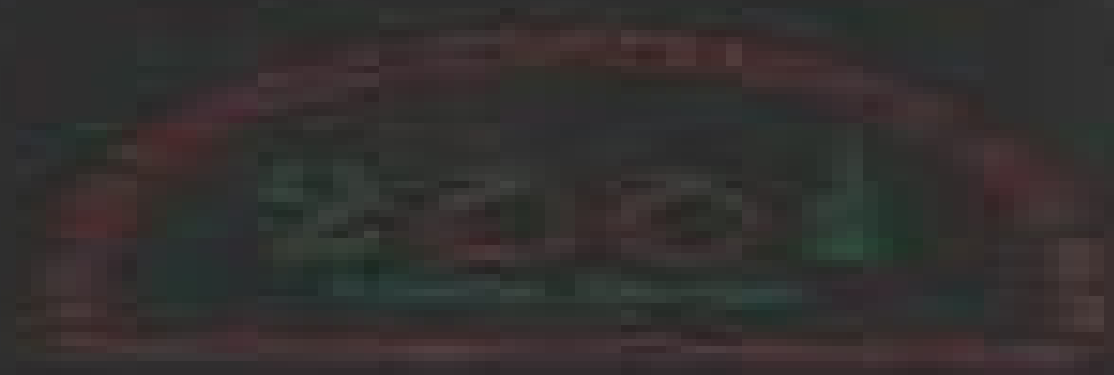


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Shock Compression Of Condensed Matter 2001

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Group Meeting on Shock Compression of Condensed Matter Meeting on Shock Compression of Condensed Matter. 12, 2001, Atlanta, Ga., 2001 **Shock Compression of Condensed Matter - 2005** Michael D. Furnish, 2006-08-24 This book constitutes the Proceedings of the Conference of the American Physical Society Topical Group on Shock Compression of Condensed Matter Baltimore Maryland USA 2005 The volume embodies the most recent research on shock compression of condensed matter and includes 363 plenary invited and contributed papers all peer reviewed Topics include equations of state phase transitions chemical reactions warm dense matter fracture geophysics and planetary science energetic materials optical studies and more **Shock Compression of Condensed Matter--2003** Michael D. Furnish, Yogendra M.

Gupta, Jerry W. Forbes, 2004 Two volumes contain 350 papers presented at the 13th Biennial International Conference of the APS Topical Group on Shock Compression of Condensed Matter Portland Oregon July 2003 One of the three plenary lectures was given by James Asay Institute for Shock Physics Washington State U Pullman Washington on wave structure studies in condensed matter physics The papers in v 1 address nonenergetic materials energetic materials phase transitions the modeling simulation theory and molecular dynamics modeling of nonreactive and reactive materials spall fracture and fragmentation constitutive and microstructural properties of metals mechanical properties of polymers and composites and mechanical properties of ceramics glasses ionic solids and liquids The largest number of papers in v 2 are under the headings mechanical properties of reactive materials detonation and burn phenomena explosive and initiation studies experimental techniques and geophysics structures and medical applications The contributors represent 14 countries where they work in state and private industry and academic settings Indexed by both author and subject Annotation 2004 Book News Inc Portland OR booknews.com **Dynamic Behavior of Materials, Volume 1** Bo Song, Dan Casem, Jamie

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Khantuleva, 2022-07-18 This book offers an interdisciplinary theoretical approach based on non equilibrium statistical thermodynamics and control theory for mathematically modeling shock induced out of equilibrium processes in condensed matter The book comprises two parts The first half of the book establishes the theoretical approach reviewing fundamentals of non equilibrium statistical thermodynamics and control theory of adaptive systems The latter half applies the presented approach to a problem on shock induced plane wave propagation in condensed matter The result successfully reproduces the observed feature of waveform propagation in experiments which conventional continuous mechanics cannot access Further the consequent stress strain relationships derived with relaxation and inertia effect in elastic plastic transition determines material properties in transient regimes *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 *Materials*

under Extreme Loadings Eric Buzaud, Ioan R. Ionescu, Georges Z. Voyiadjis, 2013-03-04 This book presents recent and cutting edge advances in our understanding of key aspects of the response of materials under extreme loads that take place during high velocity impact and penetration The focus of the content is on the numerous challenges associated with characterization and modeling of complex interactions that occur during these highly dynamic events The following specific topics among others are addressed characterization of material behavior under extreme loadings estimate of damage effects related to moisture contents large pressures large strain rates etc measurement of microstructural changes associated with damage and mesoscopic scale modeling macroscopic modeling using the framework of the theory of viscoplasticity and damage modeling and simulation of localization cracking and dynamic fragmentation of materials application to penetration mechanics and trajectory instabilities The book gathers together selected papers based on work presented as invited lectures at the 2nd US France symposium held on 28 30 May 2008 in Rocamadour France The conference was organized by Eric Buzaud DGA Centre d études de Gramat under the auspices of the International Center for Applied Computational Mechanics ICACM

Fractals, Applied Synergetics and Structure Design V. S. Ivanova, V. U. Novikov, A. A. Oksogoev, 2005 Non linear systems behaviours are discussed in this book from the point of new scientific approaches to the interdisciplinary nature of the fractal geometry and synergetics Fractal analysis synergetics methods and mathematical design are considered according to actual problems of condensed media physics mechanics material science and geology

Dynamic Behavior of Materials, Volume 1 Tom Proulx, 2011-05-27 Dynamic Behavior of Materials represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics held at Uncasville Connecticut June 13 16 2011 The full set of proceedings also includes volumes on Mechanics of Biological Systems and Materials Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials MEMS and Nanotechnology Optical Measurements Modeling and Metrology Experimental and Applied Mechanics Thermomechanics and Infra Red Imaging and Engineering Applications of Residual Stress

Los Alamos Science, 2002

Celebrating 60 Years Los Alamos National Laboratory, 2003 Accompanying CD ROM contains a PDF version of Celebrating 60 years Page 8 of booklet

Impactful Times James R. Asay, Lalit C. Chhabildas, R. Jeffery Lawrence, Mary Ann Sweeney, 2017-05-02 This book presents a history of shock compression science including development of experimental material modeling and hydrodynamics code technologies over the past six decades at Sandia National Laboratories The book is organized into a discussion of major accomplishments by decade with over 900 references followed by a unique collection of 45 personal recollections detailing the trials tribulations and successes of building a world class organization in the field It explains some of the challenges researchers faced and the gratification they experienced when a discovery was made Several visionary researchers made pioneering advances that integrated these three technologies into a cohesive capability to solve complex scientific and engineering problems What approaches worked which ones did not and the applications of the

research are described. Notable applications include the turret explosion aboard the USS Iowa and the Shoemaker Levy comet impact on Jupiter. The personal anecdotes and recollections make for a fascinating account of building a world renowned capability from meager beginnings. This book will be inspiring to the expert, the non expert, and the early career scientist. Undergraduate and graduate students in science and engineering who are contemplating different fields of study should find it especially compelling.

Ceramic Armor and Armor Systems II Eugene Medvedovski, 2012-04-11. Contains papers on the development and incorporation of ceramic materials for armor applications. Topics include impact and penetration modeling, dynamic and static testing to predict performance, damage characterization, non destructive evaluation, and novel material concepts.

Energetic Materials, 2003-11-21. This volume provides an overview of current research and recent advances in the area of energetic materials focusing on explosives and propellants. The contents and format reflect the fact that theory, experiment, and computation are closely linked in this field. The challenge of developing energetic materials that are less sensitive to accidental stimuli continues to be of critical importance. This volume opens with discussions of some determinants of sensitivity and its correlations with various molecular and crystal properties. The next several chapters deal in considerable detail with different aspects and mechanisms of the initiation of detonation and its quantitative description. The second half of this volume focuses upon combustion. Extensive studies model ignition and combustion with applications to different propellants. The final chapter is an exhaustive computational treatment of the mechanism and kinetics of combustion initiation reactions of ammonium perchlorate. Overall, this volume illustrates the progress that has been made in the field of energetic materials and some of the areas of current activity. It also indicates the challenges involved in characterizing and understanding the properties and behaviour of these compounds. The work is a unique state of the art treatment of the subject, written by pre eminent researchers in the field. Overall emphasis is on theory and computation presented in the context of relevant experimental work. Presents a unique state of the art treatment of the subject. Contributors are pre eminent researchers in the field.

Shock Wave Science and Technology Reference Library, Vol. 5 Blaine Asay, 2009-12-16. Los Alamos National Laboratory is an incredible place. It was conceived and born amidst the most desperate of circumstances. It attracted some of the most brilliant minds, the most innovative entrepreneurs, and the most creative tinkerers of that generation. Out of that milieu emerged physics and engineering that beforehand was either unimaginable or thought to be fantasy. One of the fields essentially invented during those years was the science of precision high explosives. Before 1942 explosives were used in munitions and commercial pursuits that demanded proper chemistry and con nement for the necessary effect but little else. The needs and requirements of the Manhattan project were of a much more precise and specific nature. Spatial and temporal specifications were reduced from centimeters and milliseconds to micrometers and nanoseconds. New theory and computational tools were required along with a raft of new experimental techniques and novel ways of interpreting the results. Over the next 40 years the emphasis was on higher energy in smaller packages, more precise

initiation schemes better and safer formulations and greater accuracy in forecasting performance. Researchers from many institutions began working in the emerging and expanding field. In the midst of all of the work and progress in precision initiation and scientific study in the early 1960s, papers began to appear detailing the first quantitative studies of the transition from deflagration to detonation (DDT) first in cast then in pressed explosives and finally in propellants.

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