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High-Pressure Shock Compression of Solids V

Shock Chemistry with
Applications to
Meteorite Impacts



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High Pressure Shock Compression Of Solids V

Jonas A. Zukas, William Walters



High Pressure Shock Compression Of Solids V:

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High-pressure Shock Compression of Solids J. R. Asay, Mohsen Shahinpoor, 1993 This book presents a set of basic understandings of the behavior and response of solids to propagating shock waves The propagation of shock waves in a solid body is accompanied by large compressions decompression and shear Thus the shear strength of solids and any inelastic response due to shock wave propagation is of the utmost importance Furthermore shock compression of solids is always accompanied by heating and the rise of local temperature which may be due to both compression and dissipation For many solids under a certain range of impact pressures a two wave structure arises such that the first wave called the elastic precursor travels with the speed of sound and the second wave called a plastic shock wave travels at a slower speed Shock wave loading of solids is normally accomplished by either projectile impact such as produced by guns or by explosives The shock heating and compression of solids covers a wide range of temperatures and densities For example the temperature may be as high as a few electron volts 1 eV 11 500 K for very strong shocks and the densification may be as high as four times the normal density

High-Pressure Shock Compression of Solids V Lee Davison, Yasuyuki Horie, Toshimori Sekine, 2012-10-14 This volume is concerned primarily with the chemical and physical effects of shock waves on typical materials It compares naturally occurring materials with similar materials produced by shock compression in the laboratory providing clues about the environment and events that produced the natural materials

High-Pressure Shock Compression of Solids V Lee Davison, Yasuyuki Horie, Toshimori Sekine, 2003 This volume is concerned primarily with the chemical and physical effects of shock waves on typical materials It compares naturally occurring materials with similar materials produced by shock compression in the laboratory providing clues about the environment and events that produced the natural materials

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High-Pressure Shock Compression of Solids VII Vladimir E. Fortov, L.V. Altshuler, R.F. Trunin, A.I. Funtikov, 2013-03-09 Presenting some of the most recent results

of Russian research into shock compression as well as historical overviews of the Russian research programs into shock compression this volume will provide Western researchers with many novel ideas and points of view The chapters in this volume are written by leading Russian specialists various fields of high pressure physics and form accounts of the main researches on the behavior of matter under shock wave interaction The experimental portions contain results of studies of shock compression of metals to high and ultra high pressure shock initiation of polymorphic transformations strength fracture and fragmentation under shock compression and detonation of condensed explosives There are also chapters on theoretical investigations of shock wave compression and plasma states in regimes of high pressure and high temperature The topics of the book are of interest to scientists and engineers concerned with questions of material behavior under impulsive loading and to the equation of state of matter Application is to questions of high speed impact inner composition of planets verification of model representations of material behavior under extreme loading conditions syntheses of new materials development of new technologies for material processing etc Russian research differs from much of the Western work in that it has traditionally been wider ranging and more directed to extremes of response than to precise characterization of specific materials and effects Western scientists could expect to benefit from the perspective gained from close knowledge of the Russian work

High-Pressure Shock Compression of Solids III Lee Davison, Mohsen

Shahinpoor, 2012-12-06 Developments in experimental methods are providing an increasingly detailed understanding of shock compression phenomena on the bulk intermediate and molecular scales This third volume in a series of reviews of the current state of knowledge covers several diverse areas The first group of chapters addresses fundamental physical and chemical aspects of the response of condensed matter to shock compression equations of state molecular dynamic analysis deformation of materials spectroscopic methods Two further chapters focus on a particular group of materials ceramics Another chapter discusses shock induced reaction of condensed phase explosives And a final pair of chapters considers shock phenomena at low stresses from the point of view of continuum mechanics

Solids Under High-Pressure Shock Compression R.A. Graham, 2012-12-06

Since the 1950s shock compression research contributed greatly to scientific knowledge and industrial technology As a result for example our understanding of meteorite impacts has substantially improved and shock processes have become standard industrial methods in materials synthesis and processing Investigations of shock compressed matter involve physics electrical engineering solid mechanics metallurgy geophysics and materials science The description of shock compressed matter presented here which is derived from physical and chemical observations differs significantly from the classical descriptions derived from strictly mechanical characteristics This volume with over 900 references provides an introduction for scientists and engineers interested in the present state of shock compression science

Thermo-Gas Dynamics of Hydrogen Combustion and Explosion Boris E. Gelfand, Mikhail V.

Silnikov, Sergey P. Medvedev, Sergey V. Khomik, 2012-02-13 The potential of hydrogen as an important future energy source

has generated fresh interest in the study of hydrogenous gas mixtures. Indeed both its high calorificity and reactivity are unique properties the latter underscoring safety considerations when handling such mixtures. The present monograph is devoted to the various aspects of hydrogen combustion and explosion processes. In addition to theoretical and phenomenological considerations this work also collates the results of many experiments from less well known sources. The text reviews the literature in this respect thereby providing valuable information about the thermo gas dynamical parameters of combustion processes for selected experimental settings in a range of scientific and industrial applications.

Shock Wave Reflection Phenomena Gabi Ben-Dor, 2007-08-28 This book is a comprehensive state of the knowledge summation of shock wave reflection phenomena from a phenomenological point of view. It includes a thorough introduction to oblique shock wave reflections dealing with both regular and Mach types. It also covers in detail the corresponding two and three shock theories. The book moves on to describe reflection phenomena in a variety of flow types as well as providing the resolution of the Neumann paradox.

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.

Static Compression of Energetic Materials Suhithi M. Peiris, Gasper J. Piermarini, 2009-01-03 Developing and testing novel energetic materials is an expanding branch of the materials sciences. Reaction detonation or explosion of such materials invariably produce extremely high pressures and temperatures. To study the equations of state (EOS) of energetic materials in extreme regimes both shock and static high pressure studies are required. The present volume is an introduction and review of theoretical, experimental and numerical aspects of static compression of such materials. Chapter 1 introduces the basic experimental tool, the diamond anvil pressure cell, and the observational techniques used with it such as optical microscopy, infrared spectrometry and x-ray diffraction. Chapter 2 outlines the principles of high nitrogen energetic materials synthesis. Chapters 3 and 4 examine and compare various EOS formalisms and data fitting for crystalline and non-crystalline materials respectively. Chapter 5 details the reaction kinetics of detonating energetic materials. Chapter 6 investigates the interplay between static and dynamic shock studies. Finally, Chapters 7 and 8 introduce numerical simulations, molecular dynamics of energetic materials under either hydrostatic or uni-axial stress and ab initio treatments of defects in crystalline materials. This timely volume meets the growing demand for a state of the art introduction and review of the most relevant aspects of static compression of energetic materials and will be a valuable reference to researchers and scientists working in academic, industrial and governmental research laboratories.

High-Energy-Density Physics R. Paul Drake, 2006-08-31 This book has two goals. One goal is to provide a means for those new to high energy density physics to gain a broad foundation from one text. The second goal is to provide a useful working reference for those in the field. This book

has at least four possible applications in an academic context. It can be used for training in high energy density physics in support of the growing number of university and laboratory research groups working in this area. It also can be used by schools with an emphasis on ultrafast lasers to provide some introduction to issues present in all laser target experiments with high power lasers and with thorough coverage of the material in Chap 11 on relativistic systems. In addition, it could be used by physics, applied physics or engineering departments to provide in a single course an introduction to the basics of fluid mechanics and radiative transfer with didactic applications. Finally, it could be used by astrophysics departments for a similar purpose with the parallel benefit of training the students in the similarities and differences between laboratory and astrophysical systems. The notation in this text is deliberately sparse and when possible a given symbol has only one meaning. A definition of the symbols used is given in Appendix A. In various cases additional subscripts are added to distinguish among cases of the same quantity as for example in the use of ρ_1 and ρ_2 to distinguish the mass density in two different regions.

Hydrodynamics of Explosion Valery K. Kedrinskiy, 2005-11-04 *Hydrodynamics of Explosion* presents the research results for the problems of underwater explosions and contains a detailed analysis of the structure and the parameters of the wave fields generated by explosions of cord and spiral charges, a description of the formation mechanisms for a wide range of cumulative flows at underwater explosions near the free surface and the relevant mathematical models. Shock wave transformation in bubbly liquids, shock wave amplification due to collision and focusing and the formation of bubble detonation waves in reactive bubbly liquids are studied in detail. Particular emphasis is placed on the investigation of wave processes in cavitating liquids which incorporates the concepts of the strength of real liquids containing natural microinhomogeneities, the relaxation of tensile stress and the cavitation fracture of a liquid as the inversion of its two phase state under impulsive explosive loading. The problems are classed among essentially nonlinear processes that occur under shock loading of liquids and may be of interest to researchers in physical acoustics, mechanics of multiphase media, shock wave processes in condensed media, explosive hydroacoustics and cumulation.

Explosive Effects and Applications Jonas A. Zukas, William Walters, 2013-12-01 This is a broad based text on the fundamentals of explosive behavior and the application of explosives in civil engineering, industrial processes, aerospace applications and military uses.

Materials in Mechanical Extremes Neil Bourne, 2013-05-09 This book explores the underlying principles of materials under extreme pressures providing a toolbox for assessing/predicting their behaviour in real world applications.

Advances in High-Pressure Techniques for Geophysical Applications J. Chen, Y. Wang, Simon Duffy, G. Shen, L.P. Dobrzhinetskaya, 2011-10-13 High pressure mineral physics is a field that is strongly driven by the development of new technology. Fifty years ago when experimentally achievable pressures were limited to just 25 GPa, little was known about the mineralogy of the Earth's lower mantle. Silicate perovskite, the likely dominant mineral of the deep Earth, was identified only when the high pressure techniques broke the pressure barrier of 25 GPa in 1970s. However, as the maximum achievable pressure reached beyond one

Megabar 100 GPa and even to the pressure of Earth's core on minute samples new discoveries increasingly were fostered by the development of new analytical techniques and improvements in sensitivity and precision of existing techniques The book consists of six sections which group the papers according to their main topics a Elastic and Anelastic Properties b Rheology c Melt and Glass Properties d Structural and Magnetic Properties e Diffraction and Spectroscopy f Pressure Calibration and Generation As many papers cover multiple topics readers may find papers of interest in different sections All papers are prepared with emphasis on technical details suitable for a technical reference Many on line software resources are also listed in as detailed a manner as possible However the URL of the software sites may be subject to change without notice State of the art in a very important branch of geophysics namely the experimental determination of material behavior at the extreme conditions of planetary interiors Emphasis on technical details suitable for a technical reference Includes many on line software resources

Shock-Induced Chemistry Toshimori Sekine, 2024-06-23 This book begins with the history and background of the subject and then describes key experimental methods Subsequent chapters are devoted to individual topics of chemistry and materials namely synthesis of hard materials ceramics at high pressure shock induced chemical operations biomolecules meteorites and metals and molecules under extreme conditions Lastly it offers applications to earth and planetary science and ends with future perspectives Shock waves dynamically produce high pressure and temperature conditions and offer interesting areas for studies on unique chemical reactions This book introduces readers to modern shock induced chemistry and its applications and provides an update of topics in that discipline Readers can gain a comprehensive understanding of current shock induced chemistry and its versatile applications

Fragmentation of Rings and Shells Dennis Grady, 2007-07-13 For a brief period during the latter part of World War II Nevill F Mott led a theoretical group at Fort Halstead in the United Kingdom that tackled scientific issues related to pressing war time concerns Among later awards and honors Mott was knighted and a recipient of the Nobel Prize While at Fort Halstead he undertook an effort to theoretically describe the statistical fragmentation of munitions subjected to intense explosive loading Mott's original internal reports contain seminal theoretical concepts on the physics and statistics of dynamic fracture and fragmentation which have provided the inspiration for numerous later modeling efforts and engineering formulae Some of his most forward looking thoughts on the micromechanical and molecular aspects of fracture are included in these publications The present book surveys the theoretical analysis put forth by Mott with particular focus on his efforts to characterize the size and distribution of fragments resulting from a dynamic fragmentation event Copies of the original internal reports of Mott and his co workers are included The book also pursues additional theoretical analysis with the intent of delving further into the physical ideas and unfinished analysis implicit in Mott's original studies This book will be of interest to all scientists and engineers concerned with the dynamic fracture and fragmentation of solid bodies subject to intense transient loads imparted by explosive detonation and high velocity impact from both the historical and modern perspective

High-Pressure Shock

Compression of Solids IV Lee Davison, Y. Horie, Mohsen Shahinpoor, 2012-12-06 Much of the current interest in shock compression of porous solids stems from the desire to bond hard refractory powders into strong and dense solids. However, while much is known about the effects of shock compression on monolithic materials, the unusual physical and chemical processes that take place when a porous medium is shocked have been little studied thus far. This volume with contributions by leading researchers in condensed matter physics, physical chemistry, metallurgy, mechanics, and materials science begins to address that gap. The focus is on heterogeneous deformation mechanisms, nonequilibrium thermodynamics, and chemical processes. The contributions discuss such topics as modeling the complex interplay of thermal, mechanical, and chemical processes; experimental data on pore collapse and their interpretation; and synthesis of new materials through shock-induced chemical reactions. By presenting not only the most recent results but also the open questions that remain, these essays convey the excitement of developing a scientific basis for understanding shock compression of highly porous solids. Topics covered include Shock Compression Science in Highly Porous Solids, Shock Loading of Porous High Explosives, Continuum Mixture Modeling of Reactive Porous Media, Two-Phase Media Model of Shock Compression with Chemical Reaction, Constitutive Modeling of Shock-Induced Reactions in Powder Mixtures, Discrete Element Modeling of Shock Processes in Powders.

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