



# ФИЗИКА ГОРЕНИЯ И ВЗРЫВА

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# Fizika Vzryva

**Yi-Tong Ma**



## **Fizika Vzryva:**

**Detonation** David J. Edwards, 1978      **Synthesis, Properties and Applications of Ultrananocrystalline Diamond** Dieter M. Gruen, Olga A. Shenderova, Alexander Ya. Vul', 2005-04-13 Ultrananocrystalline diamond UNCD is one of the important members of the triad of nanostructured carbons which includes fullerenes and nanotubes UNCD with characteristic sizes of primary particles less than 10 nm occurs in two forms as a dispersed powder made by detonation techniques and as a chemical vapor deposited film This book for the first time combines results of research pursued by the two communities of scientists which up to now have been working rather independently and largely unaware of the vast synergistic relationships existing between them It is particularly noteworthy that much of the Russian work on disperse UNCD is available here in English for the first time The outstanding experts in the two fields are represented in this volume discussing the basic theoretical concepts underlying the synthesis and characterization of these nanomaterials and describing progress that has been made in several areas of applications such as nanocomposites selective adsorbents colloidal suspensions microabrasives lubricants quantum dots cold cathodes for UNCD particles and MEMS biosensors electrochemical and nerve prostheses high temperature highly rectifying diodes FET s thermoelectrics for UNCD films This Proceedings volume will be of interest to a wide audience of scientists and engineers and serve as an introduction to an important and rapidly evolving field of nanoscience and nanomaterials as a text for a special topics graduate course or as a starting point for those interested in the development of new approaches to problems that have hitherto defied solution for lack of suitable materials      **Explosive Ferroelectric Generators: From Physical Principles To Engineering** Sergey I Shkuratov, 2019-07-24 This book would appeal to those who are interested in pulse power technology and pulse power generation The fascinating ability to be able to achieve such incredible power levels with such compact devices is astonishing and could open up many new applications using the methods described in this well written book that is loaded with a wealth of experimental data technical background on ferroelectric materials high explosives references and many design ideas for making compact FEG s IEEE Electrical Insulation Magazine Explosive Ferroelectric Generators From Physical Principles to Engineering is an exciting new book that takes the readers inside the world of explosive ferroelectric generators guided by international expert Dr Sergey I Shkuratov It acquaints the reader with the principles of operation of ferroelectric generators and provides details on how to design build and test the devices which are the most developed and the most near term for practical applications Containing a considerable amount of experimental data that has been obtained by the author and his team over a period of 20 years this is the first book that provides key information on theory performance and applications of ferroelectric generators It is a fabulous reference for electrical and electronic engineers working with pulsed power systems researchers professors postgraduate graduate and undergraduate students      *The Hydrodynamics of an Explosion* Yu. S. Yakovlev, 1963 The problem of external forces and problems involving the action of an explosion on a structure are

investigated These problems are of interest to engineers designers and scientific workers The following 4 studies were made

- 1 General Laws Governing the Propagation of Shock Waves
- 2 Explosion in an Unbounded Medium
- 3 Simplest Boundary Problems of Explosion Theory and
- 4 Principal Aspects of the Problem of External Forces in the Case of Aerial and Underwater Explosions

Author **XI Airt** N. V. Novikov, 1989 **Megagauss Physics and Technology** Peter J. Turchi, 2012-12-06 The generation and use of megagauss magnetic fields have been subjects of research and development in laboratories around the world for over a quarter of a century Research goals have included the development of compact short pulse electrical power sources and the production of ultrahigh magnetic field strengths over significant experimental volumes Energies measured in megajoules currents in megamperes and timescales of microseconds are not uncommon in such work Phase changes insulator breakdowns and local destruction of the apparatus are also frequently encountered Some efforts have involved the use of high explosive systems developing methodologies rather distinct from those of a normal physics laboratory Manipulation of magnetic flux to exchange energy between high speed electrically conducting flows and high strength electromagnetic fields remains of course a basic interaction of classical physics The remoteness of the necessary experimental sites at least in many instances and the various national concerns for security of defense related research have often limited the flow of information between investigators of separate organizations working in common areas of technical concern Occasionally however it has been possible for the community of scientists and engineers engaged in work on high magnetic fields and related high energy density systems to gather together and exchange results and plans successes and failures The first such international gathering was in 1965 at the Conference on Megagauss Magnetic Field Generation by Explosives and Related Experiments Frascati Italy **Gasdynamics of Combustion** K. I. Shchelkin, Ya. K. Troshin, 1964 **Soviet Science and Technology**, 1987 Polymer Yearbook 13 Richard A. Pethrick, Gennadi Zaikov, Teiji Tsuruta, Naoyuki Koide, 2019-08-22 Polymer Yearbook 13 brings together reviews and information on the progress of polymer science worldwide including useful and topical information such as a list of new publications in polymer science and a compilation of dissertation abstracts This volume includes reviews of key aspects of polymer science including contributions from Russia and details of important publications This volume also contains reviews on state of the art Japanese research presented at the annual Spring and Fall meetings of the Japanese Polymer Science Society The aim of this section is to make information on the progress of Japanese polymer science and on topics of current interest to polymer scientists in Japan more easily available worldwide *17th JANNAF Combustion Meeting, NASA Langley Research Center, Hampton, Virginia, September 22-26, 1980*, 1980 **Prevention of Hazardous Fires and Explosions** V.E. Zarko, V. Weiser, N. Eisenreich, A.A. Vasil'ev, 2012-12-06 Besides its obvious destructive potential military R D also serves to protect human lives equipment and facilities against the effects of weapons Concepts have therefore been developed that improve safety of stationary and mobile facilities against pressure waves thermal radiation and fire Effective fast fire extinguishing equipment has been designed for

tank compartments and motors Closed buildings are demolished and landmines are removed with gas and dust explosions Stringent safety requirements have been developed for the production of ammunition and explosives Military and related industries have accumulated a vast knowledge and sophisticated experience that are very valuable in a variety of civil applications The knowledge is based on theoretical and experimental research work the origin of which sometimes dates back many centuries It has often been classified and therefore has remained unknown to the civilian population until now

**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

**Nonsteady Burning and Combustion Stability of Solid Propellants** Martin Summerfield, 1992 **Dynamics of Heterogeneous Materials** Vitali Nesterenko, 2013-03-09 This monograph deals with the behavior of essentially nonlinear heterogeneous materials in processes occurring under intense dynamic loading where microstructural effects play the main role This book is not an introduction to the dynamic behavior of materials and general information available in other books is not included The material herein is presented in a form I hope will make it useful not only for researchers working in related areas but also for graduate students I used it successfully to teach a course on the dynamic behavior of materials at the University of California San Diego Another course well suited to the topic may be nonlinear wave dynamics in solids especially the part on strongly nonlinear waves About 100 problems presented in the book at the end of each chapter will help the reader to develop a deeper understanding of the subject I tried to follow a few rules in writing this book 1 To focus on strongly nonlinear phenomena where there is no small parameter with respect to the amplitude of disturbance including solitons shock waves and localized shear 2 To take into account phenomena sensitive to materials structure where typical space scale of material parameters particle size cell size are presented in the models or are variable in experimental research

**Cubic Zirconia and Skull Melting** Yu S. Kuz'minov, E. E. Lomonova, V. V. Osiko, 2008 The authors present a new method of producing high temperature dielectric crystals including cubic zirconia glass and melted ceramic materials based on direct induction melting in a cold container *Fourth International Microgravity Combustion Workshop*, 1997

*Numerical Modeling of Explosives and Propellants* Charles L. Mader, 2007-10-18 Major advances both in modeling methods and in the computing power required to make those methods viable have led to major breakthroughs in our ability to model the performance and vulnerability of explosives and propellants In addition the development of proton radiography during the last decade has provided researchers with a major new experimental tool for studying explosive and shock wave physics Problems that were once considered intractable such as the generation of water cavities jets and stems by explosives and projectiles have now been solved Numerical Modeling of Explosives and Propellants Third Edition provides a complete

overview of this rapidly emerging field covering basic reactive fluid dynamics as well as the latest and most complex methods and findings. It also describes and evaluates Russian contributions to the experimental explosive physics database which only recently have become available. This book comes with downloadable resources that contain FORTRAN and executable computer codes that operate under Microsoft Windows Vista operating system and the OS X operating system for Apple computers. Windows Vista and MAC compatible movies and PowerPoint presentations for each chapter. Explosive and shock wave databases generated at the Los Alamos National Laboratory and the Russian Federal Nuclear Centers. Charles Mader's three pronged approach through text, computer programs and animations imparts a thorough understanding of new computational methods and experimental measuring techniques while also providing the tools to put these methods to effective use.

*Numerical Modeling of Explosives and Propellants, Second Edition* Charles L. Mader, 1997-08-29 Charles Mader, a leading scientist who conducted theoretical research at Los Alamos National Laboratory for more than 30 years, sets a new standard with this reference on numerical modeling of explosives and propellants. This book updates and expands the information presented in the author's landmark work *Numerical Modeling of Detonations* published in 1979 and still in use today. *Numerical Modeling of Explosives and Propellants* incorporates the considerable changes the personal computer has brought to numerical modeling since the first book was published and includes new three dimensional modeling techniques and new information on propellant performance and vulnerability. Both an introduction to the physics and chemistry of explosives and propellants and a guide to numerical modeling of detonation and reactive fluid dynamics, *Numerical Modeling of Explosives and Propellants* offers scientists and engineers a complete picture of the current state of explosive and propellant technology and numerical modeling. The book is richly illustrated with figures that support the concepts and filled with tables for quick access to precise data. The accompanying CD ROM contains computer codes that are the national standard by which modeling is evaluated. Dynamic material properties data files and animation files are also included. There is no other book available today that offers this vital information.

Scramjet Propulsion E. T. Curran, S. N. B. Murthy, 2000

Nanocrystalline Materials Aleksandr Ivanovich Gusev, Andrei Andreevich Rempel', 2004 In the monograph the first of this type in the world, the authors discuss systematically the current state of investigations into nanocrystalline materials. The experimental results on the effect of the nanocrystalline state on the microstructure and the mechanical, thermophysical, optical and magnetic properties of metals, alloys and solid phase compounds are generalised. Special attention is given to the main methods of production of isolated nanoparticles, ultrafine powders and dense nanocrystalline materials. The dimensional effects in isolated nanoparticles and high density nanocrystalline materials are discussed in detail and the important role of the interface in the formation of the structure and properties of dense nanocrystalline materials is shown. The modelling considerations explaining special features of the structure and anomalous properties of substances in the nanocrystalline condition are analysed.

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