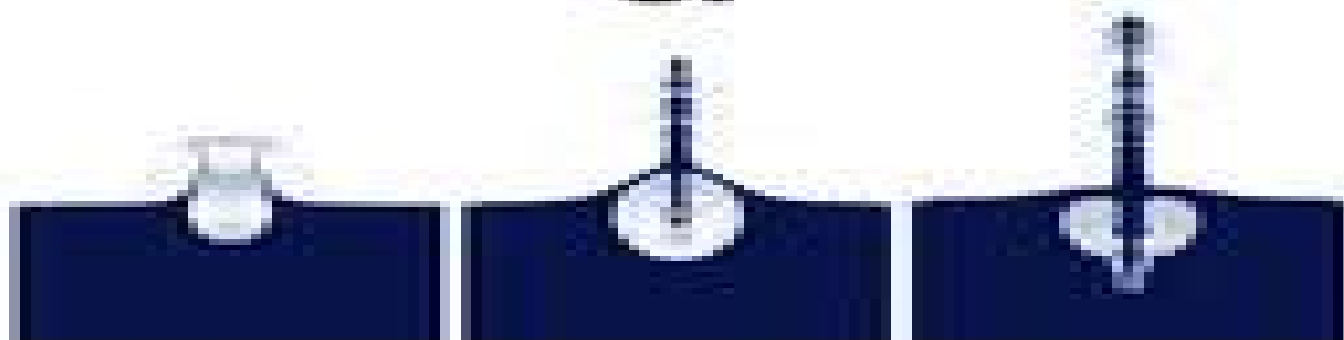


Third Edition

NUMERICAL MODELING

of



EXPLOSIVES and PROPELLANTS

Charles L. Mader



CRC Press
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Numerical Modeling Of Explosives And Propellants Third Edition

**Dieter M. Gruen, Olga A.
Shenderova, Alexander Ya. Vul'**



Numerical Modeling Of Explosives And Propellants Third Edition:

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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

Numerical Modeling of Detonations Charles L. Mader, 1979 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

Rock Mechanics and Engineering Volume 3 Xia-Ting

Feng, 2017-04-21 Analysis Modeling Back Analysis Risk Analysis Design and Stability Analysis Overviews Design and Stability Analysis Coupling Process Analysis Design and Stability Analysis Blast Analysis and Design Rock Slope Stability Analysis and Design Analysis and Design of Tunnels Caverns and Stopes The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come *Future Developments in Explosives and Energetics* Jacqueline Akhavan, 2023-07-19 The International Explosives Conference IEC champions cutting edge deep science research conducted internationally in the energetic materials sector Designed for professionals academics and researchers it is involved in the fundamental science of explosives and other energetic materials Set firmly in the context of future developments IEC 2022 presents and debates the themes of energetic materials and characterisation manufacturing and processing response to stimuli advances in experimental techniques and diagnostics and theory modelling and simulation IEC 2022 took place in London from 22 to 24 June 2022 and this publication provides a record of the proceedings for the oral presentations and display posters that were showcased at the event *Nanodiamonds* Oliver Williams, 2014 First comprehensive book on nanodiamonds from leading experts in the field *Energetic Compounds* Mohammad Hossein Keshavarz, Thomas M. Klapötke, 2017-07-10 Since the synthesis and development of new energetic materials require identification of promising candidates for additional study and elimination of poor candidates from further consideration it is important for engineers scientists and industries to assess the performance of the new compounds for reducing costs associated with synthesis testing and evaluation of these materials Nowadays different approaches have been used to predict the performance of energetic compounds which can be recognized to be cost effective environmentally desirable and time saving capabilities This book reviews different methods for the assessment of the performance of an energetic compound

through its heat of detonation detonation pressure detonation velocity detonation temperature Gurney energy and power strength The book also focuses on the detonation pressure and detonation velocity of non ideal aluminized energetic compounds Simple and reliable methods are demonstrated in detail where they can be easily used for the design synthesis and development of novel energetic compounds

Energetic Materials Veera Boddu, Paul Redner, 2010-12-07 Due to safety reasons energetic materials are rarely studied at research facilities Therefore theoretical and empirical models are needed for studying the behavior of these materials This book provides insight into the depth and breadth of theoretical and empirical models and experimental techniques being developed for energetic materials It presents the latest research by US Department of Defense engineers and scientists along with their academic and industrial research partners Some of the topics and simulations discussed can be applied to other classes of chemical compounds such as those used in the pharmaceutical industry

Structures Under Shock and Impact XIII G. Schleyer, C. A. Brebbia, 2014-06-03 SUSI XIII contains the proceedings of the 13th International Conference in the successful series of Structures Under Shock and Impact Since the first meeting in Cambridge Massachusetts 1989 the conference has brought together the research works of scientists and engineers from a wide range of academic disciplines and industrial backgrounds that have an interest in the structural impact response of structures and materials The shock and impact behaviour of structures is a challenging area not only because of the obvious time dependent aspects but also due to the difficulties in specifying the external dynamic loadings boundary conditions and connection characteristics for structural design and hazard assessment and in obtaining the dynamic properties of materials Thus it is important to recognise and utilise fully the contributions and understand the emerging theoretical numerical and experimental studies on structures as well as investigations into the material properties under dynamic loading conditions Any increased knowledge will enhance our understanding of these problems and thorough forensic studies on the structural damage after accidents will lead to improved design requirements The range of topics in this very active field is ever expanding The following list of topics gives an idea of the wide number of applications covered Impact and blast loading Energy absorbing issues Interaction between computational and experimental results Aeronautical and aerospace applications Response of reinforced concrete under impact Response of building facades to blast Seismic behaviour Structural crashworthiness Industrial accidents and explosions Hazard mitigation and assessment Active protection and security Tunnel and underground structures protection Dynamic analysis of composite structures Design against failure Damage limitation

Shock Compression of Condensed Matter--2007 Mark Elert, 2007

Synthesis, Properties and Applications of Ultrananocrystalline Diamond Dieter M. Gruen, Olga A. Shenderova, Alexander Ya. Vul', 2006-03-30 We are pleased to present the Proceedings of the NATO Advanced Research Workshop Syntheses Properties and Applications of Ultrananocrystalline Diamond which was held June 7 10 2004 in St Petersburg Russia The main goal of the Workshop was to provide a forum for the intensive exchange of opinions between scientists from Russia and NATO

countries in order to give additional impetus to the development of the science and applications of a new carbon nanostructure called ultrananocrystalline diamond UNCD composed of 2.5 nm crystallites. There are two forms of UNCD: dispersed particles and films. The two communities of researchers working on these two forms of UNCD have hitherto lacked a common forum in which to explore areas of scientific and technological overlap. As a consequence, the two fields have up to now developed independently of each other. The time had clearly come to remedy this situation in order to be able to take full advantage of the enormous potential for societal benefits to be derived from exploiting the synergistic relationships between UNCD dispersed particulates and UNCD films. The NATO sponsored ARW therefore occurred in a very timely manner and was successful in beginning the desired dialogue, a precondition for making progress toward the above stated goal. The discovery of UNCD completes a triad of nanostructured carbons which includes fullerenes and nanotubes. Writing Fast Programs John S. Riley, 2006. Writing Fast Programs provides the basic elements of code optimization and provides strategies for reducing bottlenecks in practical simulation and numerical modeling code. The target audience is scientists and engineers and students in these fields. One pre-publication reviewer called this a much needed intermediate text to bridge the gap between existing introductory and more advanced programming books aimed at scientists. Writing Fast Programs does not teach basic programming; some programming proficiency is assumed along with familiarity with the basic programming terminology. Code examples are presented in C but BASIC as a convenient pseudo language; examples are provided for those not familiar with C. In general, the strategies presented are not language specific and should therefore benefit a wide programming audience. For example, similar techniques have been discussed for Java.

Propellants and Explosives

Naminosuke Kubota, 2015-04-22. Propellants and Explosives. Explosives and propellants are termed energetic materials for containing considerable chemical energy which can be converted into rapid expansion. In contrast to simple burning of a fuel, explosives and propellants are self-contained and do not need external supply of oxygen via air. Since their energy content thus inherently creates the risk of accidental triggering of the explosive reaction, proper synthesis, formulation and handling during production and use are of utmost importance for safety and necessitate specialist knowledge on energetic materials, their characteristics, handling and applications. Now in its third edition, the classic on the thermochemical aspects of the combustion of propellants and explosives is completely revised and updated and includes green propellants as a new topic. The combustion processes of typical energetic crystalline and polymeric materials and various types of propellants and pyrolants are presented to provide an informative, generalized approach for the understanding of the combustion mechanisms of those materials. The first half of the book represents an introductory text on pyrodynamics, describing fundamental aspects of the combustion of energetic materials. The second half highlights applications of energetic materials as propellants, explosives and pyrolants with focus on phenomena occurring in rocket motors. In addition, the appendix gives a brief overview of the fundamentals of aerodynamics and heat transfer which is a prerequisite for the study of pyrodynamics. A detailed reference

for readers interested in rocketry or explosives technology **Numerical Modeling of Water Waves** Charles L. Mader, 2004-06-25 Numerical Modeling of Water Waves Second Edition covers all aspects of this subject from the basic fluid dynamics and the simplest models to the latest and most complex including the first ever description of techniques for modeling wave generation by explosions projectile impacts asteroids and impact landslides The book comes packaged with a CD ROM that contains the computer codes and movies generated by the author and his colleagues at the Los Alamos National Laboratory Mader's three pronged approach through text computer programs and animations imparts a thorough understanding of new computational methods and provides the tools to put those methods to effective use Annual Report of the Faculty of Engineering, Kyushu University Kyūshū Daigaku. Kōgaku Kenkyūin, 2002 *National Air Toxics Information Clearinghouse* Carol A. Owen, 1990 *National Air Toxics Information Clearinghouse*, 1990 **Local and Nonlocal Micromechanics of Heterogeneous Materials** Valeriy A. Buryachenko, 2021-11-16 This book presents the micromechanics of random structure heterogeneous materials a multidisciplinary research area that has experienced a revolutionary renaissance at the overlap of various branches of materials science mechanical engineering applied mathematics technical physics geophysics and biology It demonstrates intriguing successes of unified rigorous theoretical methods of applied mathematics and statistical physics in material science of microheterogeneous media The prediction of the behaviour of heterogeneous materials by the use of properties of constituents and their microstructure is a central problem of micromechanics This book is the first in micromechanics where a successful effort of systematic and fundamental research of the microstructure of the wide class of heterogeneous materials of natural and synthetic nature is attempted The uniqueness of the book lies in its development and expressive representation of statistical methods quantitatively describing random structures which are at most adopted for the forthcoming evaluation of a wide variety of macroscopic transport electromagnetic strength and elastoplastic properties of heterogeneous materials *Thermitic Thermodynamics* Anthony Peter Gordon Shaw, 2020-05-13 Thermites which are generally considered to be reactive mixtures of powdered metals and metal oxides are an important subset of energetic materials The underlying thermodynamic properties of a given mixture dictate whether it may undergo a self sustaining reaction liberating heat in the process Thermodynamic information in the existing scientific literature regarding thermitic combinations is scattered and incomplete Currently a comprehensive overview of this nature would be of great use to those working in the areas of pyrotechnics pyrometallurgy high temperature chemistry and materials science Thermitic Thermodynamics solves this problem by describing the results of calculations on over 800 combinations of metal metalloid and metal oxide reactants Other features include A first of its kind adiabatic survey of binary thermitic reactions Provides an overview of key trends in exothermic metal metal oxide reactivity Describes the role of non oxide product formation in thermitic systems Explains how to interpret the results of thermochemical calculations effectively An invaluable resource this book provides an accessible introduction for students and is also an enduring guide for

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Numerical Modeling Of Explosives And Propellants Third Edition Introduction

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