

Third Edition

NUMERICAL MODELING

of



EXPLOSIVES and PROPELLANTS

Charles L. Mader



CRC Press
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Numerical Modeling Of Explosives And Propellants

Jose A. Sanchidrian



Numerical Modeling Of Explosives And Propellants:

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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 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

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Rock Fragmentation by Blasting Jose A. Sanchidrian, 2009-08-20 This volume contains the papers presented at the 9th International Symposium on Rock Fragmentation by Blasting held in Granada Spain 13 17 August 2009 A state of the art collection of articles on developments in rock blasting and explosives engineering with contributions on rock characterization explosives and initiation systems blast design and monitoring fragmentation assessment numerical modeling vibrations from blasting environmental and economical aspects of rock blasting and more Containing unique knowledge case studies ideas and insights this volume is must have literature for researchers and practitioners in the field of explosives and blasting

Emerging Energetic Materials: Synthesis, Physicochemical, and Detonation Properties Dabir S. Viswanath, Tushar K. Ghosh, Veera M. Boddu, 2018-01-02 This book summarizes science and technology of a new generation of high energy and insensitive explosives The objective is to provide professionals with comprehensive information on the synthesis and the physicochemical and detonation properties of the explosives Potential technologies applicable for treatment of contaminated wastestreams from manufacturing facilities and environmental matrices are also included This book provides the reader an insight into the depth and breadth of theoretical and empirical models and experimental techniques currently being developed in the field of energetic materials It presents the latest research by DoD engineers and scientists and some of DoD's academic and industrial researcher partners The topics explored and the simulations developed or modified for the purposes of energetics may find application in other closely related fields such as the pharmaceutical industry One of the key features of the book is

the treatment of wastewaters generated during manufacturing of these energetic materials **High Energy Materials** Jai Prakash Agrawal, 2015-11-20 Authored by an insider with over 40 years of high energy materials HEMs experience in academia industry and defense organizations this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes Written at an attainable level for professionals engineers and technicians alike the book provides a comprehensive view of the current status and suggests further directions for research and development An introductory chapter on the chemical and thermodynamic basics allows the reader to become acquainted with the fundamental features of explosives before moving on to the important safety aspects in processing handling transportation and storage of high energy materials With its collation of results and formulation strategies hitherto scattered in the literature this should be on the shelf of every HEM researcher and developer

Scientific and Technical Aerospace Reports ,1995 **Proceedings** ,1989 Papers presented in this publication cover special problems in the field of energetic materials particularly detonation phenomena in solids and liquids General subject areas include shock to detonation transition time resolved chemistry initiation modeling deflagration to detonation transition equation of state and equation of state and performance composites and emulsions and composites and emulsions underwater explosives reaction zone detonation wave propagation hot spots detonation products chemistry and compositions and special initiation

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