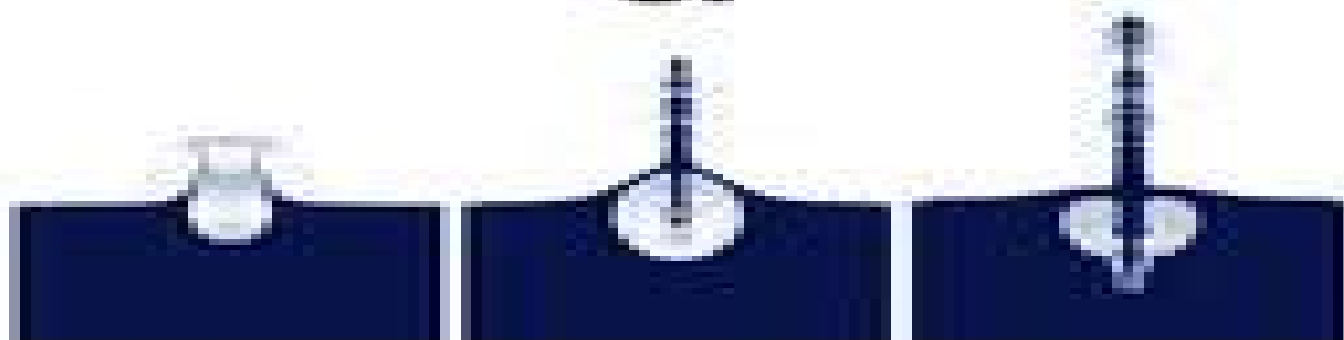


Third Edition

# NUMERICAL MODELING

of



# EXPLOSIVES and PROPELLANTS

Charles L. Mader



CRC Press  
Taylor & Francis Group

# Numerical Modeling Of Explosives And Propellants

**Bibhu Mohanty, Vinay Kumar Singh**



## **Numerical Modeling Of Explosives And Propellants:**

**Numerical Modeling of Explosives and Propellants, Third Edition** Charles L. Mader, 2008 Providing a complete overview of the rapidly emerging field of modeling for explosives and propellants this updated text imparts a thorough understanding of new computational methods and experimental measuring techniques The CD ROM contains FORTRAN and executable computer codes      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      *Numerical Modeling of Detonations* Charles L. Mader,1979      *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      *Materials Informatics III* Kunal Roy,Arkaprava Banerjee,2025-03-01 This contributed volume focuses on the application of machine learning and cheminformatics in predictive modeling for organic materials polymers solvents and energetic materials It provides an in depth look at how machine learning is utilized to predict key properties of polymers deep eutectic solvents and ionic liquids as well as to improve safety and performance in the study of energetic and reactive materials With chapters covering polymer informatics quantitative structure property relationship QSPR modeling and computational approaches the book serves as a comprehensive resource for researchers applying predictive modeling techniques to advance materials science and improve material safety and performance      **Test Methods for Explosives** Muhamed Suceska,2012-12-06 It seems that there is no book that treats the measurement of the physical parameters of explosives as its only subject although limited information is available in a number of books Therefore I have tried to bridge this gap in the literature with this book A large number of various physical parameters have to be determined experimentally in order to test or characterise an explosive Various physical principles have been applied for such measurements Accordingly a large number of different experimental methods exist as well as various testing apparatuses and procedures On the other hand great progress has been made recently in the study of detonation phenomena New measuring techniques can assess extremely short processes to below nanoseconds scale They make it possible to determine important parameters in detonation physics I have made a great attempt to cover the available literature data on the subject Because it would be a highly demanding task to include in a single volume all the methods that are in use by various testing agencies I have tried to give primarily the principles for determination of individual physical parameters of explosives by different measuring methods as well as data treatment procedures      **Explosives** Rudolf Meyer,Josef Köhler,Axel Homburg,2016-05-09 The unrivaled definitive reference for almost 40 years this classic work on explosives is now in its seventh completely revised and updated edition Some 500 monographic entries arranged alphabetically consider the physicochemical properties production methods and safe applications of over 120 explosive chemicals In addition 70 fuels

additives and oxidizing agents are discussed as well as the corresponding test methods Trade company and military short names are provided for many of the materials listed while further key features include a combined index and glossary with terms and abbreviations in English French and German as well as conversion tables and many literature references Finally this indispensable source also contains safety data and transport regulations      **Scientific and Technical Aerospace Reports**,1995      **Ballistics 2011** Ernest Baker,Douglas Templeton,2011-09 Includes papers that were first presented at a

September 2011 conference organized by the National Defense Industrial Association and the International Ballistics Society This title includes a CD ROM that displays figures and illustrations in articles in full color along with a title screen and main

menu screen      **Energy Research Abstracts** ,1993      Energetic Compounds Mohammad Hossein Keshavarz,Thomas M. Klapötke,2020-05-05 This book discusses methods for the assessment of energetic compounds through heat of detonation detonation pressure velocity and temperature Gurney energy and power The authors focus on the detonation pressure and detonation velocity of non ideal aluminized energetic compounds This 2nd Edition includes an updated and improved presentation of simple reliable methods for the design synthesis and development of novel energetic compounds

**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      The Properties of Energetic Materials Mohammad Hossein Keshavarz,Thomas M. Klapötke,2021-10-25 For a chemist who is concerned with the synthesis of new energetic compounds it is essential to be able to assess physical and thermodynamic properties as well as the sensitivity of possible new energetic compounds before synthesis is attempted Various approaches have been developed to predict important aspects of the physical and thermodynamic properties of energetic materials including but not limited to crystal density heat of formation melting point enthalpy of fusion and enthalpy of sublimation of an organic energetic compound Since an organic energetic material consists of metastable molecules capable of undergoing very rapid and highly exothermic reactions many methods have been developed to estimate the sensitivity of an energetic compound with respect to detonationcausing external stimuli such as heat friction impact shock and electrostatic discharge This book introduces these methods and demonstrates those methods which can be easily applied      Hydrazine and Its Derivatives Eckart Walter Schmidt,2001      Shock Wave Science and

Technology Reference Library, Vol.4 F. Zhang,2009-06-12 The fourth of several volumes on solids in this series the six extensive chapters here are more specifically concerned with detonation and shock compression waves in reactive heterogeneous media including mixtures of solid liquid and gas phases      **Detonation Phenomena of Condensed**

**Explosives** Shiro Kubota,2023-01-13 This book presents fundamental theory of shock and detonation waves as well as selected studies in detonation research in Japan contributed by selected experts in safety research on explosives development of industrial explosives and application of explosives It also reports detonation research in Japan featuring

industrial explosives that include ammonium nitrate based explosives and liquid explosives. Intended as a monographic style book, it consistently uses technical terms and symbols and creates organic links between various detonation phenomena in application of explosives fundamental theory of detonation waves measurement methods and individual studies. Among other features, the book presents a historical perspective of shock wave and detonation research in Japan, pedagogical materials for young researchers in detonation physics and an introduction to works in Japan including equations of state which are worthy of attention but about which very little is known internationally. Further, the concise pedagogical chapters also characterize this book as a primer of detonation of condensed explosives and help readers start their own research.

**Performance of Explosives and New Developments** Bibhu Mohanty, Vinay Kumar Singh, 2012-11-05. There is considerable scope for improving the outcome of any blasting operation through basic understanding and application of the principles of blasting science and technology. The main objective of *Performance of Explosives and New Developments* is to sensitize the practitioner to critically examine the various empirical approaches in blasting. *BALLISTICS 2016* Clive Woodley, Ian Cullis, 2016-05-22. Presents high level research on various caliber guns, cannon, mortars, drones, warheads, shells, bullets, drills and other launchers and penetrants as well as their impact effects on natural and designed materials including large scale targets and body armors. Provides new modeling and test data on projectile design and guidance, propellants, charges and explosives for military aerospace and civil engineering applications. Over 250 presentations in two printed volumes plus searchable CD. This book makes available original ballistics technology from around the world on a wide variety of weapons and their effects including the design and trajectory stability control of dozens of projectiles ranging from shells to missiles. The book's authors discuss the efficacy and development of propellants, munitions and igniters and offer new approaches for modeling and testing. Also investigated in Volume 1 are shielding and protection strategies for individual persons and other targets. Volume 2 offers research on the mechanical behavior of multiple types of explosives as well as impact and penetration data from projectile effects on surfaces ranging from natural phenomena such as water and soils to metallic plating and material engineered armors. Papers in these volumes were presented at a conference organized by the National Defense Industrial Association (NDIA) with the International Ballistics Society.

**Solid Rocket Propulsion Technology** A. Davenas, 2012-12-02. This book, a translation of the French title *Technologie des Propergols Solides*, offers otherwise unavailable information on the subject of solid propellants and their use in rocket propulsion. The fundamentals of rocket propulsion are developed in chapter one and detailed descriptions of concepts are covered in the following chapters. Specific design methods and the theoretical physics underlying them are presented and finally the industrial production of the propellant itself is explained. The material used in the book has been collected from different countries as the development of this field has occurred separately due to the classified nature of the subject. Thus the reader not only has an overall picture of solid rocket propulsion technology but a comprehensive view of its different developmental permutations worldwide.

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Numerical Modeling Of Explosives And Propellants**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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