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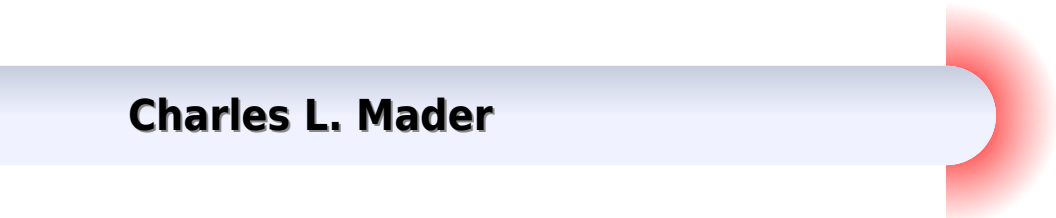
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Numerical Modeling Of Explosives And Propellants

Charles L. Mader



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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 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 *Molecular Modeling of the Sensitivities of Energetic Materials* Didier Mathieu, 2022-04-01 Molecular Modeling of the Sensitivities of Energetic Materials Volume 22 introduces experimental aspects explores the relationships between sensitivity molecular structure and crystal structure discusses insights from numerical simulations and highlights applications of these approaches to the design of new materials Providing practical guidelines for implementing predictive models and their application to the search for new compounds this book is an authoritative guide to an exciting field of research that warrants a computer aided approach for the investigation and design of safe and powerful explosives or propellants Much recent effort has been put into modeling sensitivities with most work focusing on impact sensitivity and leading to a lot of experimental data in this area Models must therefore be developed to allow evaluation of significant properties from the structure of constitutive molecules Highlights a range of approaches for computational simulation and the importance of combining them to accurately understand or estimate different parameters Provides an overview of experimental findings and knowledge in a quick and accessible format Presents guidelines to implement sensitivity models using open source python related software thus supporting easy implementation of flexible models and allowing fast assessment of hypotheses **Rock Fragmentation by Blasting** Jose A. Sanchidrian, 2009-08-20

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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
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