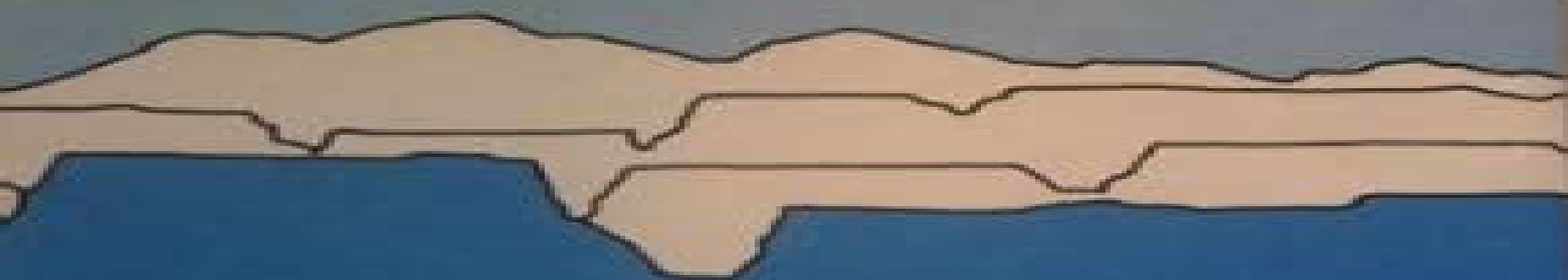


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Numerical modeling of

sympathetic detonation Allen L. Bowman, James D. Kershner, Charles L. Mader, 1979 **Numerical Modeling of One-dimensional Discrete Source Detonation** Mehshan Javaid, 2011 *Numerical Modeling of Spherically Symmetric Detonations in Open Environments of Fuel Air Mixtures* Thomas Peter McGrath, 2003 **Numerical Modeling of Heterogeneous High Explosives**, 2008 This report contains a numerical algorithm for modeling the detonation and explosion of a heterogeneous mixture of high explosive and small metal particles The simulation examines a spherical explosive design with a mixture of nitromethane as the high explosive and steel as the metal particles The algorithm provides a computational model of the detonation and explosion by producing position velocity and temperature profiles for the metal particles over time For the gas phase the algorithm produces position velocity temperature density and pressure profiles over time This is accomplished by taking into account the initial position and velocity profiles for the metal particles a corresponding particle drag law appropriate explosive energy and detonation pressure inputs and a blast wave solution that governs the thermodynamic state of the gas phase The behavior of the solid particles and gas phase throughout the explosion is simulated by a coupled two phase algorithm The results of the model are compared against experimental data and critiqued on a theoretical level as well Recommendations and plans for improvements to the algorithm are discussed This model is intended to provide a sound representation of the detonation as well as insight into the behavior of a heterogeneous explosive **Gaseous Detonation Physics and Its Universal Framework Theory** Zonglin Jiang, Honghui Teng, 2022-12-16 This book highlights the theories and research progress in gaseous detonation research and proposes a universal framework theory that overcomes the current research limitations Gaseous detonation is an extremely fast type of combustion that propagates at supersonic speed in premixed combustible gas Being self sustaining and self organizing with the unique nature of pressure gaining gaseous detonation and its gas dynamics has been an interdisciplinary frontier for decades The research of detonation enjoyed its early success from the development of the CJ theory and ZND modeling but phenomenon is far from being understood quantitatively and the development of theories to predict the three dimensional cellular structure remains a formidable task being essentially a problem in high speed compressible reacting flow This theory proposed by the authors research group breaks down the limitation of the one dimensional steady flow hypothesis of the early theories successfully correlating the propagation and initiation processes of gaseous detonation and realizing the unified expression of the three dimensional structure of cell detonation The book and the proposed open framework is of high value for researchers in conventional applications such as coal mine explosions and chemical plant accidents and state of the art research fields such as supernova explosion new aerospace propulsion engines and detonation driven hypersonic testing facilities It is also a driving force for future research of detonation **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 *Nanoscale Simulations of Detonation* Andrew Joseph Heim, 2007 A fundamental study of detonation physics phenomena is presented utilizing Molecular Dynamics MD with the popular Reactive Empirical Bond Order REBO potential We explore the effects that varying the strength of the interatomic bonding potentials of the reactive chemical species have on the detonation properties shock velocity and critical width for sustained detonation We conduct a much more thorough analysis of the thermodynamic properties of that model than has been done previously in order to quantitatively compare our observations with established theories During this analysis we discover some unconventional properties of the model Using physical reasoning we track down the cause of these unconventional thermodynamic behaviors and resolve them so that the model behaves more consistently with conventional systems that is more molecular ones as organic high explosives tend to be In clearing up these issues with the model we introduce into it the phenomenon of detonation instability whereby transverse waves in the locally subsonic reaction zone influence the detonation propagation This has never before been seen in MD simulations of detonation but is known well by experimentalists and continuum modelers **Dynamics of Explosions** A. L. Kuhl, 1988

Modeling Explosions and Blast Waves K. Ramamurthi, 2021-06-19 b The book provides a concise description of the physical processes and mathematical models for explosions and formation of blast waves from explosions The contents focus on quantitatively determining the energy released in the different types of explosions and the destructive blast waves that are generated The contribution of flames detonations and other physical processes to the explosion phenomenon is dealt with in detail Gaseous and condensed phase explosions are discussed and the yield of explosions with their TNT equivalence is determined Time scales involved in the explosion process and the scaling procedure are ascertained Explosions over the ground in water and the interaction of explosions with objects are examined In order to keep the text easily readable the detailed derivation of the mathematical equations is given in the seven appendices at the end of the book Case studies of various explosions are investigated and simple problems and their solutions are provided for the different topics to assist the reader in internalizing the explosion process The book is a useful reference for professionals and academics in aeronautics mechanical civil and chemical engineering and for personnel working in explosive manufacture and high energy materials

armaments space defense and industrial and fire safety Numerical Modeling of Buried Mine Explosions ,2001 The effects of buried mine explosions in various soil media are investigated by numerical hydrocode simulations Tabular equations of state EOS for dry and wet sand are constructed These EOS are used in CTH calculations of a steel plate suspended over the detonation of a TNT explosive charge buried in both media Wet sand imparts significantly higher momentum to the plate than dry sand Calculations in both two and three spatial dimensions are compared **Dynamics of Detonations and Explosions--detonations** A. L. Kuhl,1991 **Dynamic Aspects of Detonations** A. L. Kuhl,1993 The four companion volumes on Dynamic Aspects of Detonations and Explosion Phenomena and Dynamics of Gaseous and Heterogeneous Combustion and Reactive Systems present 111 of the 230 papers given at the Thirteenth International Colloquium on the Dynamics of Explosions and Reactive Systems held in Nagoya Japan These books embrace the topics of explosions detonations shock phenomena and reactive flow as well as the gasdynamic aspects of nonsteady flow in combustion systems the fluid mechanics aspects of combustion and diagnostic techniques Two of the volumes Dynamics of Gaseous Combustion Vol 151 and Dynamics of Heterogeneous Combustion and Reacting Systems Vol 152 focus on the processes of coupling the exothermic energy release with the fluid mechanics occurring in various combination processes The other two volumes Dynamic Aspects of Detonations Vol 153 and Dynamic Aspects of Explosion Phenomena Vol 154 address the rate processes of energy deposition in a compressible medium and the concurrent nonsteady flow as it typically occurs in explosion phenomena *Numerical Modeling of Buried Explosions* ,2011 **Numerical Modeling of Buried Mine Explosions** ,2001 The effects of buried mine explosions in various soil media are investigated by numerical hydrocode simulations Tabular equations of state EOS for dry and wet sand are constructed These EOS are used in CTH calculations of a steel plate suspended over the detonation of a TNT explosive charge buried in both media Wet sand imparts significantly higher momentum to the plate than dry sand Calculations in both two and three spatial dimensions are compared **Proceedings of the International Symposium on Intense Dynamic Loading and Its Effects, June 3-7, 1986, Beijing, China** Jing Ding,1988

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Table of Contents Numerical Modeling Of Detonations

1. Understanding the eBook Numerical Modeling Of Detonations
 - The Rise of Digital Reading Numerical Modeling Of Detonations
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Modeling Of Detonations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Modeling Of Detonations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Modeling Of Detonations
 - Personalized Recommendations
 - Numerical Modeling Of Detonations User Reviews and Ratings
 - Numerical Modeling Of Detonations and Bestseller Lists

5. Accessing Numerical Modeling Of Detonations Free and Paid eBooks
 - Numerical Modeling Of Detonations Public Domain eBooks
 - Numerical Modeling Of Detonations eBook Subscription Services
 - Numerical Modeling Of Detonations Budget-Friendly Options
6. Navigating Numerical Modeling Of Detonations eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerical Modeling Of Detonations Compatibility with Devices
 - Numerical Modeling Of Detonations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Modeling Of Detonations
 - Highlighting and Note-Taking Numerical Modeling Of Detonations
 - Interactive Elements Numerical Modeling Of Detonations
8. Staying Engaged with Numerical Modeling Of Detonations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Modeling Of Detonations
9. Balancing eBooks and Physical Books Numerical Modeling Of Detonations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Modeling Of Detonations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Numerical Modeling Of Detonations
 - Setting Reading Goals Numerical Modeling Of Detonations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Numerical Modeling Of Detonations
 - Fact-Checking eBook Content of Numerical Modeling Of Detonations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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