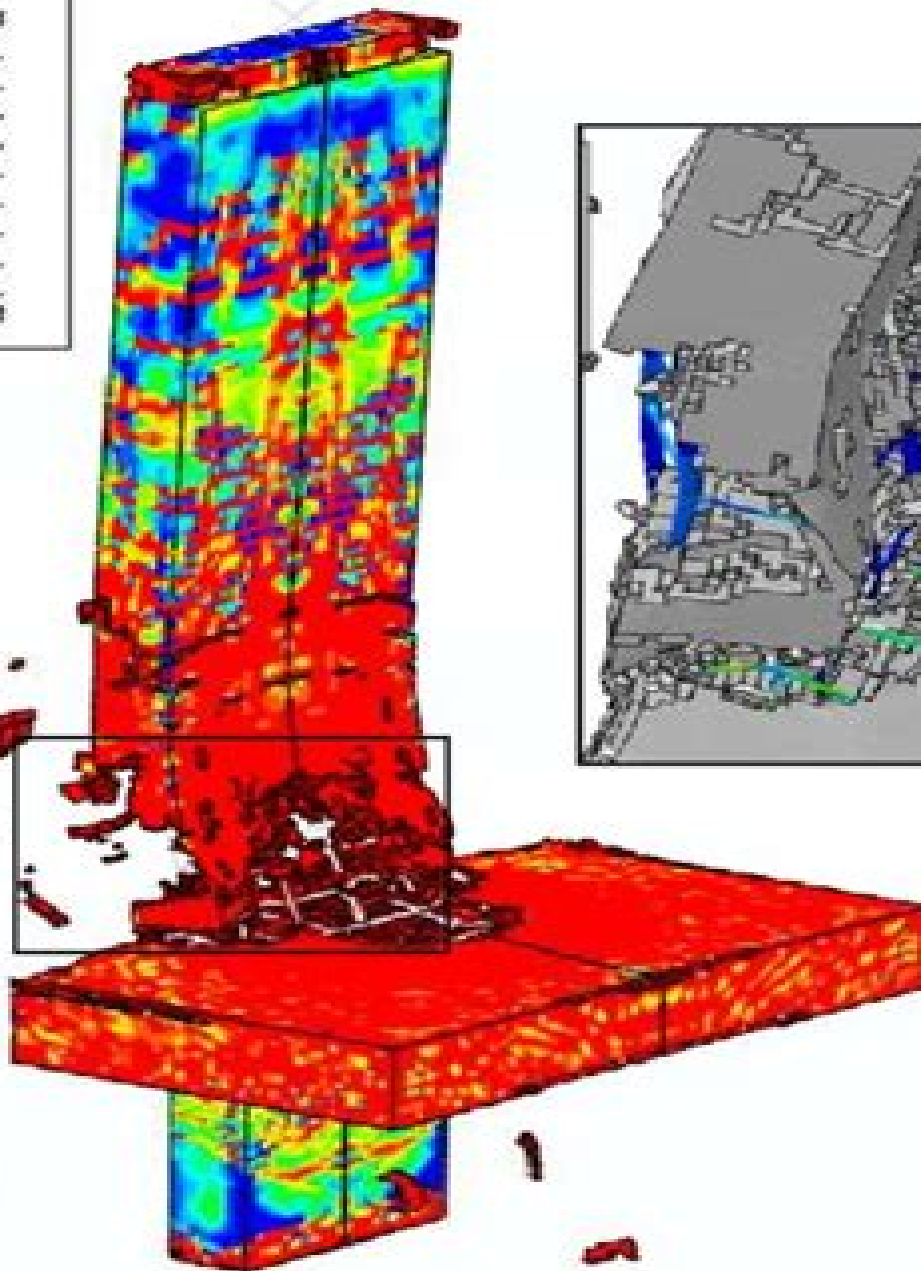
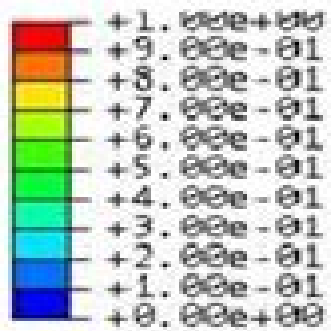
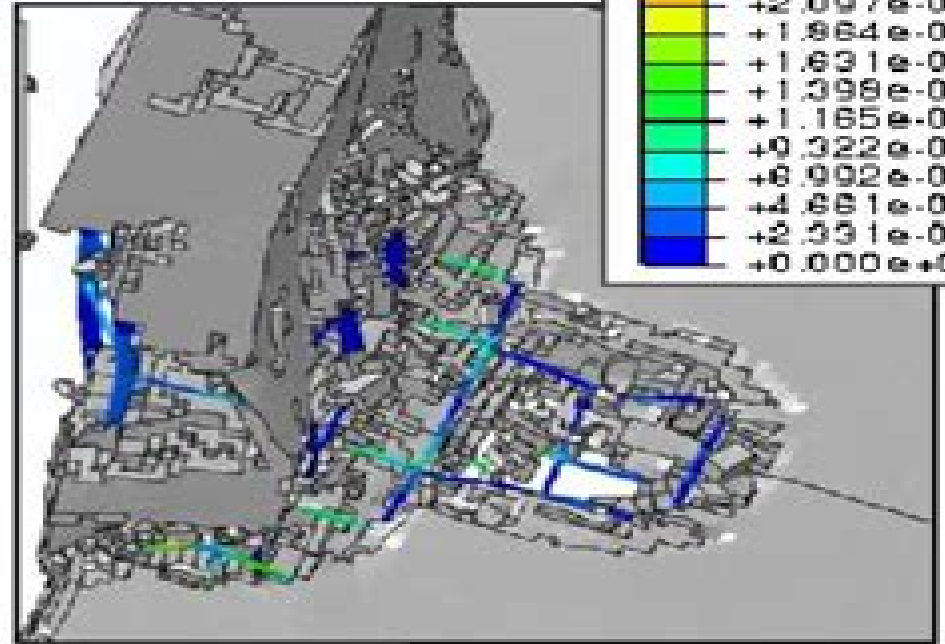
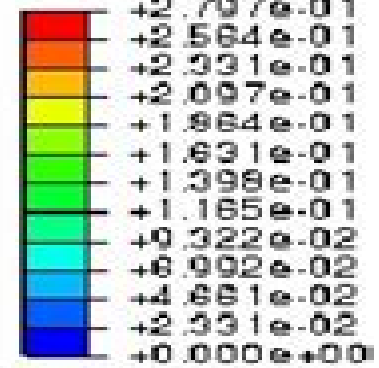


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Numerical Modeling Of Detonations

Klaus Hannemann, Friedrich Seiler



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Leiber,2003-04-25 Whereas the current plane wave homogeneous flow detonation physics is an excellent engineering tool for numerical predictions under given conditions the multi hot spot model is an additional tool for analyzing phenomena that cannot be explained by classical calculations The real benefit comes from being able to understand without any artificial assumptions the whole phenomenology of detonations and explosions By specifying pressure generating mechanisms one is able to see that the current treatment of the detonics of energetic materials is only a very special but powerful case of explosion events and hazards It becomes clear that physical explosions must be taken into account in any safety considerations In these terms it is easy to understand why even liquid carbon dioxide and inert silo materials can explode A unique collection of unexpected events which might surprise even specialists has resulted from the evaluation of the model

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 the 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.

The Detonation Phenomenon John H. S. Lee, 2008-06-30 This book introduces the detonation phenomenon in explosives. It is ideal for engineers and graduate students with a background in thermodynamics and fluid mechanics. The material is mostly qualitative aiming to illustrate the physical aspects of the phenomenon. Classical idealized theories of detonation waves are presented first. These permit detonation speed, gas properties ahead of and behind the detonation wave and the distribution of fluid properties within the detonation wave itself to be determined. Subsequent chapters describe in detail the real unstable structure of a detonation wave. One, two and three dimensional computer simulations are presented along with experimental results using various experimental techniques. The important effects of confinement and boundary conditions and their influence on the propagation of a detonation are also discussed. The final chapters cover the various ways detonation waves can be formed and provide a review of the outstanding problems and future directions in detonation research.

Scientific and Technical Aerospace Reports, 1992
Proceedings, Seventh Symposium (International) on Detonation, 1982
Shock Waves Science and Technology Library, Vol. 6 F. Zhang, 2012-03-19 This book as a volume of the Shock Wave Science and Technology Reference Library is primarily concerned with the fundamental theory of detonation physics in gaseous and condensed phase reactive media. The detonation process involves complex chemical reaction and fluid dynamics accompanied by intricate effects of heat, light, electricity and magnetism, a contemporary research field that has found wide applications in propulsion and power hazard prevention as well as military engineering. The seven extensive chapters contained in this volume are: Chemical Equilibrium Detonation, S. Bastea and L. E. Fried; Steady One Dimensional Detonations, A. Higgins; Detonation Instability, H. D. Ng and F. Zhang; Dynamic Parameters of Detonation, A. A. Vasiliev; Multi Scaled Cellular Detonation, D. Desbordes and H. N. Presles; Condensed Matter Detonation Theory and Practice, C. Tarver; Theory of Detonation Shock Dynamics, J. B. Bdzil and D. S. Stewart. The chapters are thematically interrelated in a systematic descriptive approach though each chapter is self contained and can be read independently from the others. It offers a timely reference of theoretical detonation physics for graduate students as well as

professional scientists and engineers **30th International Symposium on Shock Waves 1** Gabi Ben-Dor, Oren Sadot, Ozer Igra, 2017-08-09 These proceedings collect the papers presented at the 30th International Symposium on Shock Waves ISSW30 which was held in Tel Aviv Israel from July 19 to July 24 2015 The Symposium was organized by Ortra Ltd The ISSW30 focused on the state of knowledge of the following areas Nozzle Flow Supersonic and Hypersonic Flows with Shocks Supersonic Jets Chemical Kinetics Chemical Reacting Flows Detonation Combustion Ignition Shock Wave Reflection and Interaction Shock Wave Interaction with Obstacles Shock Wave Interaction with Porous Media Shock Wave Interaction with Granular Media Shock Wave Interaction with Dusty Media Plasma Magnetohydrodynamics Re entry to Earth Atmosphere Shock Waves in Rarefied Gases Shock Waves in Condensed Matter Solids and Liquids Shock Waves in Dense Gases Shock Wave Focusing Richtmyer Meshkov Instability Shock Boundary Layer Interaction Multiphase Flow Blast Waves Facilities Flow Visualization and Numerical Methods The two volumes serve as a reference for the participants of the ISSW30 and anyone interested in these fields **Detonation Control for Propulsion** Jiun-Ming Li, Chiang Juay Teo, Boo Cheong Khoo, Jian-Ping Wang, Cheng Wang, 2017-12-05 This book focuses on the latest developments in detonation engines for aerospace propulsion with a focus on the rotating detonation engine RDE State of the art research contributions are collected from international leading researchers devoted to the pursuit of controllable detonations for practical detonation propulsion A system level design of novel detonation engines performance analysis and advanced experimental and numerical methods are covered In addition the world's first successful sled demonstration of a rocket rotating detonation engine system and innovations in the development of a kilohertz pulse detonation engine PDE system are reported Readers will obtain in a straightforward manner an understanding of the RDE PDE design operation and testing approaches and further specific integration schemes for diverse applications such as rockets for space propulsion and turbojet ramjet engines for air breathing propulsion Detonation Control for Propulsion Pulse Detonation and Rotating Detonation Engines provides with its comprehensive coverage from fundamental detonation science to practical research engineering techniques a wealth of information for scientists in the field of combustion and propulsion The volume can also serve as a reference text for faculty and graduate students and interested in shock waves combustion and propulsion Dynamic Aspects of Explosion Phenomena A. L. Kuhl, 1993 Effects of fuel distribution on detonation tube performance , **Dynamics of Heterogeneous Combustion and Reacting Systems** A. L. Kuhl, 1993 *Shock Waves* Klaus Hannemann, Friedrich Seiler, 2009-04-01 The 26th International Symposium on Shock Waves in Göttingen Germany was jointly organised by the German Aerospace Centre DLR and the French German Research Institute of Saint Louis ISL The year 2007 marked the 50th anniversary of the Symposium which first took place in 1957 in Boston and has since become an internationally acclaimed series of meetings for the wider Shock Wave Community The ISSW26 focused on the following areas Shock Propagation and Reflection Detonation and Combustion Hypersonic Flow Shock Boundary Layer Interaction Numerical Methods Medical

Biological and Industrial Applications Richtmyer Meshkov Instability Blast Waves Chemically Reacting Flows Diagnostics Facilities Flow Visualisation Ignition Impact and Compaction Multiphase Flow Nozzles Flows Plasmas and Propulsion The two Volumes contain the papers presented at the symposium and serve as a reference for the participants of the ISSW 26 and individuals interested in these fields Dynamics of Detonations and Explosions A. L. Kuhl,1991 *List of Publications of*

the U.S. Army Engineer Waterways Experiment Station U.S. Army Engineer Waterways Experiment Station,1978 **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

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

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