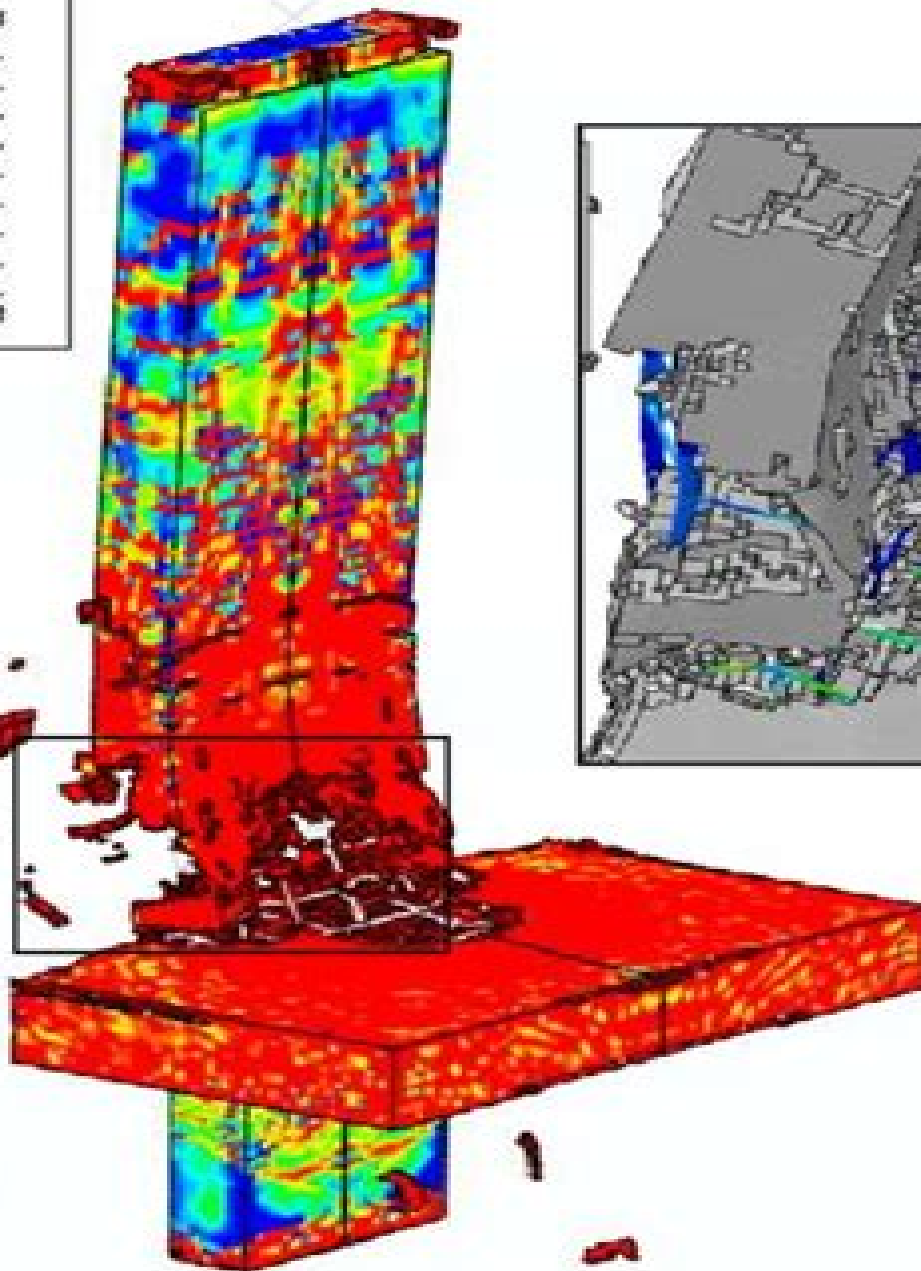
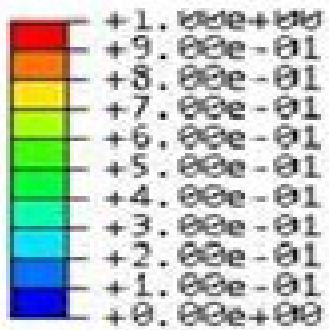
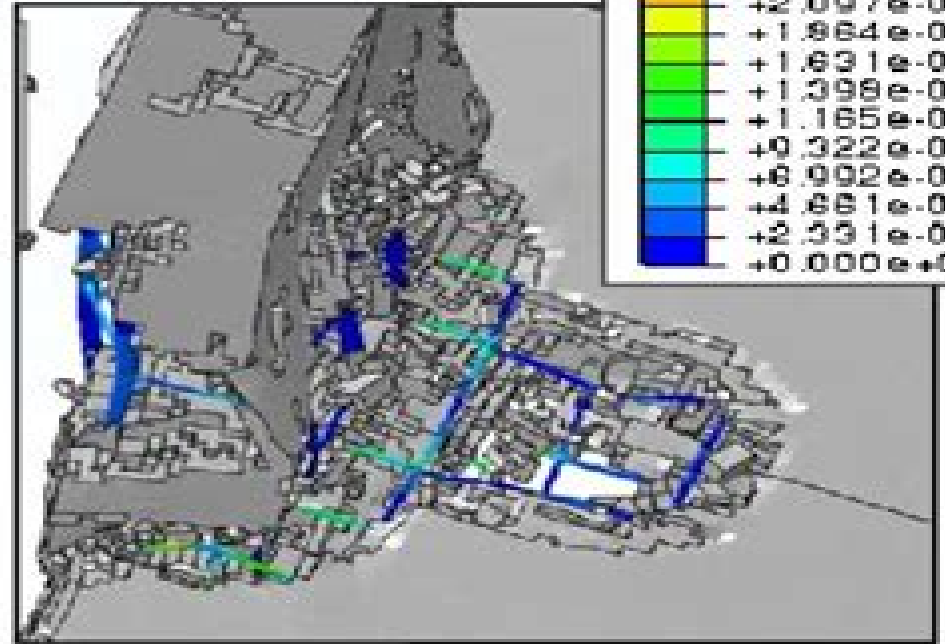
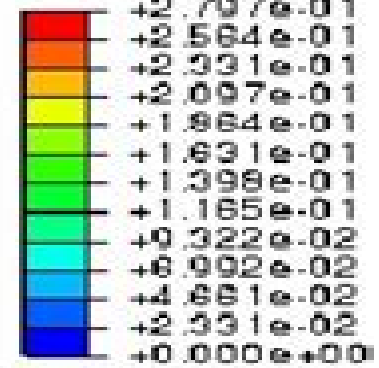


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Numerical Modeling Of Detonations

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Dynamic Aspects of Detonations A. L. Kuhl, 1993

Proceedings, Seventh Symposium (International) on Detonation, 1982 *Assessment of Safety and Risk with a*

Microscopic Model of Detonation C.-O. 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

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

Dynamics of Detonations and Explosions A. L. Kuhl, 1991

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

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