



JOHN H. S. LEE

The Detonation Phenomenon

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The Detonation Phenomenon John H S Lee

**American Institute of Aeronautics and
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The Detonation Phenomenon John H S Lee:

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 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.

Handbook of Shock Waves, Three Volume Set Gabi Ben-Dor, Ozer Igra, Tov Elperin, 2000-10-18 The Handbook of Shock Waves contains a comprehensive, structured coverage of research topics related to shock wave phenomena, including shock waves in gases, liquids, solids and space. Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields: compressible flow, aerodynamics, materials science and astrophysics. Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction, i.e. sonic boom that occurs when a jet breaks the speed of sound. This Handbook contains experimental, theoretical and numerical results which never before appeared under one cover. The first handbook of its kind, The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields. Additionally, R&D establishments, applied science research laboratories and scientific and engineering libraries both in universities and government institutions, as well as undergraduate and graduate students in fluid mechanics, gas dynamics and physics.

Key Features: Ben Dor is known as one of the founders of the field of shock waves. Covers a broad spectrum of shock wave research topics. Provides a comprehensive description of various shock wave related subjects. First handbook ever to include under one separate cover experimental, theoretical and numerical results.

The Gas Dynamics of Explosions John H. S. Lee, 2016-07-21 Explosions and the non-steady shock propagation associated with them continue to interest researchers working in different fields of physics and engineering such as astrophysics and fusion. Based on the author's course in shock dynamics, this book describes the various analytical methods developed to determine non-steady shock propagation. These methods offer a simple alternative to the direct numerical integration of the Euler equations and offer a better insight into the physics of the problem. Professor Lee presents the subject systematically and in a style that is accessible to graduate students and researchers working in shock dynamics, combustion, high speed aerodynamics, propulsion and related topics.

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 *Advances In Combustion Science* W. A. Sirignano,Aleksandr Grigor'evich Merzhanov,L. De Luca,1997 *Mathematical Reviews* ,2004 *37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit* ,2001 *The Finding Guide to AIAA Meeting Papers* American Institute of Aeronautics and Astronautics. Technical Information Service,1981 Detonation of Hydrogen-air Mixtures. [PWR : BWR]. ,1983 The detonation of a hydrogen air cloud subsequent to an accidental release of hydrogen into ambient surroundings cannot be totally ruled out in view of the relative sensitivity of the hydrogen air system The present paper investigates the key parameters involved in hydrogen air detonations and attempts to establish quantitative correlations between those that have important practical implications Thus for example the characteristic length scale lambda describing the cellular structure of a detonation front is measured for a broad range of hydrogen air mixtures and is quantitatively correlated with the key dynamic detonation properties such as detonability transmission and initiation *Publications of the AIAA* American Institute of Aeronautics and Astronautics,1968 *Choice* Richard K. Gardner,Phyllis Grumm,1976 *Deflagration to Detonation Transition Study Using Simultaneous Schlieren and OH PLIF Images* S.-Y. Lee,2000 Collected Works W. W. Wood,1967 **Detonation** Wildon Fickett,William C. Davis,2012-08-29 Comprehensive review of detonation explores the simple theory and experimental tests of the theory flow in a reactive medium steady detonation the nonsteady solution and the structure of the detonation front 1979 edition *Collected works. Shock and detonation waves* Irwin Oppenheim,W. W. Wood,1967 **Toward Detonation Theory** Anatoly N. Dremin,2012-12-06 It is known that the Chapman Jouguet theory of detonation is based on the assumption of an instantaneous and complete transformation of explosives into detonation products in the wave front Therefore one should not expect from the theory any interpretations of the detonation limits such as shock initiation of detonation and kinetic instability and propagation failure diameter The Zeldovich Von Neuman Doring ZND theory of detonation appeared in fact as a response to the need for a theory capable of interpreting such limits and the ZND detonation theory gave qualitative interpretations to the detonation limits These interpretations were based essentially on the theoretical notion that the mechanism of explosives transformation at detonation is a combustion of a layer of finite thickness of shock compressed explosive behind the wave shock front with the velocity of the front However some experimental findings turned out to be

inconsistent with the theory. A very small change of homogeneous liquid explosives detonation velocity with explosive charge diameter near the rather sizable failure diameter is one of the findings. The elucidation of the nature of this finding has led to the discovery of a new phenomenon. This phenomenon has come to be known as the breakdown BD of the explosive self ignition behind the front of shock waves under the effect of rarefaction waves.

Numerical Simulations of Steady and Unsteady Oblique Detonation Phenomena with Application to Propulsion Matthew John Grismer, 1994

An Investigation of Detonation Damage Howard W. Babcock, John Warren Davis, 1954

The Effect of Freestream Variations on the Propagation of Detonation and Combustion Waves Marlon Lee Clark, 1988

Confined Detonation John David Taylor, 1993

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