

**Gilbert F. Kinney  
Kenneth J. Graham**



# **Explosive Shocks in Air**

**Second  
Edition**



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# Explosive Shocks In Air

**Klaus Hannemann, Friedrich Seiler**



## **Explosive Shocks In Air:**

**Explosive Shocks in Air** Gilbert F. Kinney, Kenneth J. Graham, 2013-11-11 A purpose of science is to organize diversified factual knowledge into a coherent body of information and to present this from the simplest possible viewpoint This is a formidable task where our knowledge is incomplete as it is with explosions Here one runs the risk of oversimplification naivete and incompleteness Nevertheless a purpose of this work is to present as simply as possible a general description of the basic nature of explosions This treatise should be of interest to all who are working with explosives such as used in construction or in demolition work in mining operations or in military applications It should also be of interest to those concerned with disasters such as explosions or earthquakes to those involved in civil defense precautions and to those concerned with defense against terrorists That is this material should be of interest to all who wish to utilize or to avoid the effects of explosions as well as to those whose interest is primarily scientific in nature *Explosive Shocks in Air* Gilbert F. Kinney, Kenneth J. Graham, 1985-07-18

A purpose of science is to organize diversified factual knowledge into a coherent body of information and to present this from the simplest possible viewpoint This is a formidable task where our knowledge is incomplete as it is with explosions Here one runs the risk of oversimplification naivete and incompleteness Nevertheless a purpose of this work is to present as simply as possible a general description of the basic nature of explosions This treatise should be of interest to all who are working with explosives such as used in construction or in demolition work in mining operations or in military applications It should also be of interest to those concerned with disasters such as explosions or earthquakes to those involved in civil defense precautions and to those concerned with defense against terrorists That is this material should be of interest to all who wish to utilize or to avoid the effects of explosions as well as to those whose interest is primarily scientific in nature Fluidenergiemaschinen W. Fister, 1986-10-01 **Lees' Loss Prevention in the Process Industries** Frank Lees, 2005-01-10

Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be

needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field      **Encyclopedia of Explosives and Related Items** Basil Timothy Fedoroff,1974

**Explosives** Rudolf Meyer,Josef Köhler,Axel Homburg,2008-01-08 This world famous reference work has been enlarged and updated without tampering with its tried and tested format Around 500 alphabetically ordered monographic entries consider the physicochemical properties production methods and safe applications of over 120 explosive chemicals discuss 70 fuels additives and oxidizing agents and describe test methods The extensive thermodynamic data have been thoroughly updated and for the first time are also provided in electronic format The included CD ROM was compiled by the Fraunhofer Institute of Chemical Technology Pfintal Germany and represents an excerpt from the ICT Thermodynamical Database Not only additional thermodynamic data and references to further reading but also enhanced search facilities are provided Other key features include the 1500 entry combined index and glossary comprising terms and abbreviations in English French and German conversion tables and many literature references This book is suitable for explosive experts and also for translators public authorities and patent lawyers From reviews of previous editions This wealth of information and an index that comprises some 1500 keywords and several conversion tables make this a unique source of knowledge for anybody working with explosives Propellants Explosives Pyrotechnics      *Introduction to Simple Shock Waves in Air* Seán Prunty,2018-12-13 This book provides an elementary introduction to some one dimensional fluid flow problems involving shock waves in air The differential equations of fluid flow are approximated by finite difference equations and these in turn are numerically integrated in a stepwise manner Artificial viscosity is introduced into the numerical calculations in order to deal with shocks The presentation is restricted to the finite difference approach to solve the coupled differential equations of fluid flow as distinct from finite volume or finite element methods This text presents the results arising from the numerical solution using Mathcad programming Both plane and spherical shock waves are discussed with particular emphasis on very strong explosive shocks in air This text will appeal to students researchers and professionals in shock wave research and related fields Students in particular will appreciate the benefits of numerical methods in fluid mechanics and the level of presentation      **Explosion, Shock-Wave and High-Strain-Rate Phenomena of Advanced Materials** Kazuyuki

Hokamoto,2021-06-09 Materials processing using explosion shock wave and high strain rate phenomena was developed after WWII and these explosive forming and welding techniques have since been adopted as an accepted industrial technology Such extremely high rate phenomena historically used empirical experiences while the experimental conditions were not well documented due to the difficulties inherent in understanding the real response or behaviour of materials Based upon the

recent development of numerical techniques for analysis and the enriched data available on the behaviour of materials it is now possible to predict such high rate phenomena based upon numerical and experimental approaches including optical observation Explosion Shock wave and High strain rate Phenomena of Advanced Materials demonstrates the deformation of various materials at high rate based upon numerical analysis and supported by experimental evidence The book is recommended for researchers and engineers who would like to learn more about the high rate effect of materials and those who need to resolve multi physics problems based on numerical approach It is also ideal for researchers and engineers interested with explosive and other high rate processing of materials Presents numerical techniques on the analysis and enriched data on the behavior of materials based upon a numerical approach Provides case studies to illustrate the various methods discussed Includes mechanical response at high rates of porous materials *Explosive Effects and Applications* Jonas A. Zukas, William Walters, 2013-12-01 This is a broad based text on the fundamentals of explosive behavior and the application of explosives in civil engineering industrial processes aerospace applications and military uses *Explosives Engineering* Paul W. Cooper, 2018-07-19 This graduate text and Cooper's companion introductory text Introduction to the Technology of Explosives serve the same markets as the successful explosives reference by Meyer now in its 4th edition VCH also published the International Journal of Propellants Explosives and Pyrotechnics The resulting package would give VCH the major presence in the field This text presents the basic technologies used in the engineering of explosives and explosive systems i.e chemistry burning detonation shock waves initiation theories scaling The book is written for upper division undergraduate or graduate level scientists and engineers and assumes a good grasp of basic physics chemistry mechanics and mathematics through calculus It is based on lecture notes used for graduate courses at the Dept of Energy Laboratories and could serve as a core text for a course at schools of mining or military engineering The intent of the book is to provide the engineer or scientist in the field with an understanding of the phenomena involved and the engineering tools needed to solve design analyze a broad range of real problems **Structures Under Shock and Impact XVI** S. Syngellakis, G. Schleyer, 2020-08-19 The increasing need to protect civilian infrastructure and industrial facilities against unintentional loads arising from accidental impact and explosion events as well as terrorist attacks is of major importance While advances have been made in recent years many challenges remain such as to develop more effective and efficient blast and impact mitigation approaches than those that currently exist The primary focus remains the survivability of physical facilities and the protection of people as well as reducing economic losses and impact on the environment with emphasis on innovative protective technologies to support the needs of an economically growing modern society The application of this technology ranges from the safe transportation of people and dangerous materials to defences against natural hazards such as floods wind storms tsunamis and earthquakes Large scale testing is prohibitive and small scale laboratory testing results in scaling uncertainties Continuing research is therefore essential to improve knowledge on how these structures behave under a

variety of load actions some of which interact making it even more complex and difficult to define Consequently more use of advanced numerical simulations for load and structural response calculations is common practice in industry and research Such calculations can directly be used in design and risk assessment calculations but also be applied to more simplified design tools and design codes Whether numerical or analytical modelling techniques are employed experimental validation is vital for there to be acceptance of the approach to be used The included papers presented at the 16th International Conference on Structures under Shock and Impact highlight new research ideas and results to promote a better understanding of the critical issues relating to the testing behaviour modelling and analyses of protective structures against blast and impact loading

#### **Similarity Methods in Engineering Dynamics** P.S. Westine,F.T. Dodge,W.E.

Baker,2012-12-02 Here is the second revised and updated edition of probably the most practical sourcebook on similarity methods and modeling techniques available Written by leading authorities who incorporate many of the latest advances in the field this new work maps out techniques for modeling as well as instrumentation and data analysis for an extremely wide array of problems in engineering dynamics This practical reference uses experimental test data on various engineering problems demonstrating exactly how and why these similarity methods work The problems involve spread of oil slicks explosive cratering car crashes space vehicle heat exchange explosive forming and more The spectrum of topics covered and number of examples are far greater than in other texts Of particular importance are the dissimilar material modeling techniques which bring new versatility and freedom to the modeler in structural dynamics The book also contains a clear in depth discussion of the theory underlying modeling and includes alternate methods for developing model laws The work will undoubtedly prove invaluable to every professional involved in testing or design of dynamic experiments

#### **Blast Effects**

Isabelle Sochet,2017-12-22 This book compiles a variety of experimental data on blast waves The book begins with an introductory chapter and proceeds to the topic of blast wave phenomenology with a discussion on Rankine Hugoniot equations and the Friedlander equation used to describe the pressure time history of a blast wave Additional topics include arrival time measurement the initiation of detonation by exploding wires a discussion of TNT equivalency and small scale experiments Gaseous and high explosive detonations are covered as well The topics and experiments covered were chosen based on the comparison of used scale sizes from small to large Each characteristic parameter of blast waves is analyzed and expressed versus scaled distance in terms of energy and mass Finally the appendix compiles a number of polynomial laws that will prove indispensable for engineers and researchers

#### **Existing and Potential Standoff Explosives Detection**

**Techniques** National Research Council,Division on Earth and Life Studies,Board on Chemical Sciences and

Technology,Committee on the Review of Existing and Potential Standoff Explosives Detection Techniques,2004-05-14

Existing and Potential Standoff Explosives Detection Techniques examines the scientific techniques currently used as the basis for explosives detection and determines whether other techniques might provide promising research avenues with

possible pathways to new detection protocols This report describe the characteristics of explosives bombs and their components that are or might be used to provide a signature for exploitation in detection technology considers scientific techniques for exploiting these characteristics to detect explosives and explosive devices discusses the potential for integrating such techniques into detection systems that would have sufficient sensitivity without an unacceptable false positive rate and proposes areas for research that might be expected to yield significant advances in practical explosives and bomb detection technology in the near mid and long term *Minutes of the Twenty-fifth Explosives Safety Seminar, Anaheim Hilton Hotel, Anaheim, California, 18-20 August 1992* ,1992 **Energetic Materials** Mark J. Mezger,Kay J. Tindle,Michelle Pantoya,Lori J. Groven,Dilhan Kalyon,2017-07-06 This book will take an in depth look at the technologies processes and capabilities to develop and produce next generation energetic materials for both commercial and defense applications including military mining operations oil production and well perforation and construction demolition It will serve to highlight the critical technologies latest developments and the current capability gaps that serve as barriers to military fielding or transition to the commercial marketplace It will also explain how the processing technologies can be spun out for use in other non energetics related industries *Shock Waves* Klaus Hannemann,Friedrich Seiler,2009-04-01 The 26th International Symposium on Shock Waves in G ttingen 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 Practical Bomb Scene Investigation, Second Edition James T. Thurman,2016-04-19 Now in its second edition Practical Bomb Scene Investigation explores the investigative process that improvised explosive device IED specialists undertake at the scene of an explosion Providing easy to understand step by step procedures for managing and processing a bomb scene it enables investigators to find the evidence and then make sense of what is found The book is not only a roadmap of knowledge on how to find and collect evidence but also an instructional guide on how to safely and effectively assess the scene New in this Edition Information on detonation pressure and its effects on the body Instructions on how to collect additional information from the scene in order to provide an estimate of the explosives weight of the IED A glossary for a more in depth understanding of the terms associated with explosives and the investigation processes A greatly expanded IED component identification chapter A chapter on how to expeditiously investigate a post blast scene in a hostile

environment Information on how to prepare an Investigative Report      *Ballistics 18th International Symposium* William G. Reinecke,1999-11-10      Advances in Structural Engineering Vasant Matsagar,2014-12-12 The book presents research papers presented by academicians researchers and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention SEC 2014 at Indian Institute of Technology Delhi during 22 24 December 2014 The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering such as earthquake engineering and structural dynamics structural mechanics finite element methods structural vibration control advanced cementitious and composite materials bridge engineering and soil structure interaction Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students academicians researchers and practicing engineers

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