

PETER O. K. KREHL

# History of Shock Waves, Explosions and Impact



A Chronological  
and Biographical  
Reference

 Springer

# History Of Shock Waves Explosions And Impact A Chronological And Biographical Reference

**Tommaso Ruggeri, Masaru Sugiyama**



## **History Of Shock Waves Explosions And Impact A Chronological And Biographical Reference:**

*History of Shock Waves, Explosions and Impact* Peter O. K. Krehl, 2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion. The history of this complex process is first reviewed in a general survey. Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery. This book is ideal for everyone professionally interested in shock wave phenomena.

*Infrasound Monitoring for Atmospheric Studies* Alexis Le Pichon, Elisabeth Blanc, Alain Hauchecorne, 2018-10-26 Since the publication of the first volume *Infrasound monitoring for atmospheric studies* published in 2010 significant advances were achieved in the fields of engineering propagation modelling and atmospheric remote sensing methods. The global infrasound network which consists of the International Monitoring Network IMS for nuclear test ban verification completed by an increasing number of regional cluster arrays deployed around the globe has evidenced an unprecedented potential for detecting locating and characterizing various natural and man made sources. In recent years infrasound has evolved into a broad interdisciplinary field encompassing academic disciplines of geophysics and innovative technical and scientific developments. The advances in innovative ground based instruments including infrasound inversions for continuous observations of the stratosphere and mesosphere provide useful insights into the geophysical source phenomenology and atmospheric processes involved. Systematic investigations into low frequency infrasound signals and the development of complementary observational platforms point out new insights into the dynamics of the middle atmosphere which play a significant role in both tropospheric weather and climate. This monitoring system also provides continuous relevant information about natural hazards with high societal benefits like on going volcanic eruptions surface earthquakes meteorites or severe weather. With this new edition researchers and students benefit from a comprehensive content of both fundamental and applied inter disciplinary topics.

**Multiscale Modeling and Simulation of Shock Wave-Induced Failure in Materials Science** Martin Oliver Steinhauser, 2018-02-24 Martin Oliver Steinhauser deals with several aspects of multiscale materials modeling and simulation in applied materials research and fundamental science. He covers various multiscale modeling approaches for high performance ceramics biological bilayer membranes semi flexible polymers and human cancer cells. He demonstrates that the physics of shock waves i.e. the investigation of material behavior at high strain rates and of material failure has grown to become an important interdisciplinary field of research on its own. At the same time progress in computer hardware and software development has boosted new ideas in multiscale modeling and simulation. Hence bridging the length and time scales in a theoretical numerical description of materials has become a prime challenge in science and technology.

Physics of Collisionless Shocks André Balogh, Rudolf A. Treumann, 2013-01-04 The present book provides a contemporary systematic treatment of shock waves in high temperature collisionless plasmas as are encountered in near Earth space and in Astrophysics. It consists of two parts. Part I develops the complete theory of shocks in

dilute hot plasmas under the assumption of absence of collisions among the charged particles when the interaction is mediated solely by the self consistent electromagnetic fields Such shocks are naturally magnetised implying that the magnetic field plays an important role in their evolution and dynamics This part treats subcritical shocks which dissipate flow energy by generating anomalous resistance or viscosity The main emphasis is however on super critical shocks where the anomalous dissipation is insufficient to retard the upstream flow These shocks depending on the direction of the upstream magnetic field are distinguished as quasi perpendicular and quasi parallel shocks which exhibit different behaviours reflecting particles back upstream and generating high electromagnetic wave intensities Particle acceleration and turbulence at such shocks become possible and important Part II treats planetary bow shocks and the famous Heliospheric Termination shock as examples of two applications of the theory developed in part I

**The Micro-World Observed by Ultra High-Speed Cameras** Kinko Tsuji,2017-08-30 This volume is about ultra high speed cameras which enable us to see what we normally do not see These are objects that are moving very fast or that we just ignore Ultra high speed cameras invite us to a wonderland of microseconds There Alice the reader meets a ultra high speed rabbit this volume and travels together through this wonderland from the year 1887 to 2017 They go to the horse riding ground and see how a horse gallops The rabbit takes her to a showroom where various cameras and illumination devices are presented Then he sends Alice into semiconductor labyrinths wind tunnels mechanical processing factories and dangerous explosive fields Sometimes Alice is large and at other times she is very small She sits even inside a car engine She falls down together with a droplet She enters a microbubble is thrown out with a jet stream and finds herself in a human body Waking up from her dream she sees children playing a game I see what you do not see and this is Alice thinks The ultra high speed rabbit showed me many things which I had never seen Now I will go again to this wonderland and try to find something new

**Thinking with Sound** Viktoria

Tkaczyk,2023-02-07 Thinking with Sound traces the formation of auditory knowledge in the sciences and humanities in the decades around 1900 When the outside world is silent all sorts of sounds often come to mind inner voices snippets of past conversations imaginary debates beloved and unloved melodies What should we make of such sonic companions Thinking with Sound investigates a period when these and other newly perceived aural phenomena prompted a far reaching debate Through case studies from Paris Vienna and Berlin Viktoria Tkaczyk shows that the identification of the auditory cortex in late nineteenth century neuroanatomy affected numerous academic disciplines across the sciences and humanities Thinking with sound allowed scholars and scientists to bridge the gaps between theoretical and practical knowledge and between academia and the social aesthetic and industrial domains As new recording technologies prompted new scientific questions new auditory knowledge found application in industry and the broad aesthetic realm Through these conjunctions Thinking with Sound offers a deeper understanding of today s second acoustic turn in science and scholarship

**Granular**

**Materials Under Shock and Blast Loading** Padmanabha Vivek,T. G. Sitharam,2019-10-31 This volume discusses the

fundamental dynamic behaviour of granular materials in particular cohesionless sand when subjected to shock and blast wave loading The contents of the book are mainly divided into three parts based on the type of loading imparted to the granular materials Shock wave loading step pulse Air blast loading Friedlander wave Buried blast loading It provides a comprehensive review of the available testing methods along with the necessary diagnostic measurements for material characterization making it useful for researchers working in the area of blast protection and Impact engineering

**Dynamics of Systems on the Nanoscale** Ilia A. Solov'yov,Alexey V. Verkhovtsev,Andrei V. Korol,Andrey V. Solov'yov,2022-06-03 This book presents the structure formation and dynamics of animate and inanimate matter on the nanometre scale This is a new interdisciplinary field known as Meso Bio Nano MBN science that lies at the intersection of physics chemistry biology and material science Special attention in the book is devoted to investigations of the structure properties and dynamics of complex MBN systems by means of photonic electronic heavy particle and atomic collisions This includes problems of fusion and fission fragmentation surfaces and interfaces reactivity nanoscale phase and morphological transitions irradiation driven transformations of complex molecular systems collective electron excitations radiation damage and biodamage channeling phenomena and many more Emphasis in the book is placed on the theoretical and computational physics research advances in these areas and related state of the art experiments Particular attention in the book is devoted to the utilization of advanced computational techniques and high performance computing in studies of the dynamics of systems

**Geophysics, Realism, and Industry** Aitor Anduaga Egaña,2016 Getting Real is the first book to simultaneously study the emergence of realist attitudes towards the entities layers of the ionosphere and the earth s crust It proposes a new kind of realism a realism of social and cultural origins an entity realism responding to specific commercial and engineering interests

**Geophysics, Realism, and Industry** Aitor Anduaga,2015-12-17 Did industry and commerce affect the concepts values and epistemic foundations of different sciences If so how and to what extent This book suggests that the most significant influence of industry on science in the two case studies treated here had to do with the issue of realism Using wave propagation as the common thread this is the first book to simultaneously analyse the emergence of realist attitudes towards the entities of the ionosphere and of the earth s crust However what led physicists and engineers to adopt realist attitudes This book suggests that a new kind of realism a realism of social and cultural origins is the answer a preliminary entity realism responding to specific commercial and engineering interests and a realism that was neither strictly instrumental nor exclusively operational The book has two parts while Part I focuses on the study of the ionosphere and how the British radio industry affected ionospheric physics Part II focuses on the study of the Earth s crust and how the American oil industry affected crustal seismology

**Metals, Energy and Sustainability** Barry Golding,Suzanne D. Golding,2017-02-26 This book explains how and where copper and fossil fuels were formed and the likely future for the extraction of copper and coal The colourful chronology of our efforts to extract metals from minerals and energy from fossil fuels is presented from

earliest times until the present day The difficult concept of human sustainability is examined in the context of continually decreasing real prices of energy and metals This book integrates the latest findings on our historic use of technology to continually produce cheaper metals even though ore grades have been decreasing Furthermore it shows that the rate of technological improvement must increase if metals are to be produced even more cheaply in the future **Ernst Mach - Life, Work, Influence** Friedrich Stadler, 2019-09-13 This edited volume features essays written in honor of Ernst Mach It explores his life work and legacy Readers will gain a better understanding of this natural scientist and scholar who made major contributions to physics the philosophy of science and physiological psychology The essays offer a critical inventory of Mach s lifework in line with state of the art research and historiography It begins with physics where he paved the way for Einstein s Theory of Relativity The account continues with Mach s contributions in biology psychology and physiology pioneering with an empiricist and gestalthaft Analysis of Sensations Readers will also discover how in the philosophy of science he served as a model for the Vienna Circle with the Ernst Mach Society as well as paved the way for an integrated history and theory of science Indeed his influence extends far beyond the natural sciences to the Vienna Medical School and psychoanalysis R B r ny J Breuer S Freud to literature Jung Wien R Musil to politics F Adler Austro Marxism and the Viennese adult education to arts between Futurism and Minimal Art as well as to social sciences between the liberal school J Schumpeter F A von Hayek and empirical social research P Lazarsfeld und M Jahoda **Terrorism and WMDs** John Pichtel, Gus Martin, 2025-04-24 Terrorism and WMDs Awareness and Response Third Edition is fully updated to include the latest technology and tactics surrounding the threats posed by terrorist groups detailing plausible contexts in which chemical biological radiological nuclear and explosive CBRNE weapons could be used by such actors Experienced author Gus Martin has collaborated on updating this resource with two new chapters at the start of the book outlining the historical origins of terrorism terrorist typologies and the evolution of the modern terrorist environment including large scale regional conflicts and domestic violent extremism in the United States Additional coverage of new case studies have been added throughout This includes an examination of the Pulse Nightclub shooting the January 6 2021 assault on the U S Capitol the October 7 2023 Hamas attack on Israel and additional events that have occurred since the last edition s release Domestic U S threats from hate extremist and supremacist groups are discussed as well as emergent and novel tactics being used in the Israel Gaza conflict and the 2022 Russian invasion and subsequent Russia Ukraine conflict are examined This includes the use of drone attacks by both Ukraine and Russia and Russia s occupation and bombardment of the Zaporizhzhia nuclear power plant ZNPP highlighting what could be argued are terror like tactics that challenge the precepts of accepted international law In the Middle East Israel s response in the wake of the October 7 2023 attack by Islamist terrorists with its subsequent operations in Gaza and an unprecedented operation involving exploding pagers and communications radios in Lebanon and Syria evoked international criticism and controversy Coverage also focuses on the chemistry and biology of weapons of mass

destruction and the development and history of their use as well as the human health effects of such weapons Added references chapter questions and the addition of recent terrorist acts to relevant sections all present the modern threat environment and realistic WMD material access and attack capabilities Given that terrorist weapons and delivery methods are becoming increasingly sophisticated the book provides a comprehensive current survey of terrorism and weapons of mass destruction As such Terrorism and WMDs Third Edition continues to serve as an invaluable resource to students and professionals studying and working in the fields of terrorism Homeland Security and emergency response

*Dynamic Armour* Fouad Sabry, 2022-01-16 What Is Dynamic Armour Electric armour or electromagnetic armour is a type of reactive armour proposed for the protection of ships and armoured fighting vehicles from shaped charge and possibly kinetic weapons using a strong electric current complementing or replacing conventional explosive reacting armour ERA How You Will Benefit I Insights and validations about the following topics Chapter 1 Dynamic armour Chapter 2 Reactive armour Chapter 3 Active protection system Chapter 4 Shaped charge Chapter 5 Defence Science and Technology Laboratory Chapter 6 Future Rapid Effect System Chapter 7 Materials science II Answering the public top questions about dynamic armour III Real world examples for the usage of dynamic armour in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of dynamic armour technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of dynamic armour

*Energy* Richard Rhodes, 2019-06-11 A meticulously researched The New York Times Book Review examination of energy transitions over time and an exploration of the current challenges presented by global warming a surging world population and renewable energy from Pulitzer Prize and National Book Award winning author Richard Rhodes People have lived and died businesses have prospered and failed and nations have risen to world power and declined all over energy challenges Through an unforgettable cast of characters Pulitzer Prize winning author Richard Rhodes explains how wood gave way to coal and coal made room for oil as we now turn to natural gas nuclear power and renewable energy Entertaining and informative a powerful look at the importance of science NPR org Rhodes looks back on five centuries of progress through such influential figures as Queen Elizabeth I King James I Benjamin Franklin Herman Melville John D Rockefeller and Henry Ford In his magisterial history a tour de force of popular science Kirkus Reviews starred review Rhodes shows how breakthroughs in energy production occurred from animal and waterpower to the steam engine from internal combustion to the electric motor He looks at the current energy landscape with a focus on how wind energy is competing for dominance with cast supplies of coal and natural gas He also addresses the specter of global warming and a population hurtling towards ten billion by 2100 Human beings have confronted the problem of how to draw energy from raw material since the beginning of time Each invention each discovery each adaptation brought further challenges and through such transformations we arrived at where we are today A beautifully written often inspiring saga of

ingenuity and progress Energy brings facts context and clarity to a key often contentious subject Booklist starred review

*A Review: Chill-Block Melt Spin Technique, Theories & Applications* Mustafa Kamal, Usama S. Mohammad, 2013-03-15  
Rapid Solidification Processing of molten metals and alloys has proved to be a reliable route for producing new and advanced materials The Chill Block Melt Spin CBMS technique is important because its simplicity flexibility and perfection High quality materials can be produced with lower costs as compared to other routes by refining the microstructure and trapping the nucleated new metastable phases Melt spun ribbons subsequently produced can then be consolidated to produce billets and sheets that can be used in many industries especially high tech industries such as aerospace and racing automobiles This book contains several perspectives about CBMS technology and should be a useful review for undergraduate and post graduate metallurgy students Routledge Handbook of Sport Security Stacey A. Hall, 2025-09-01 This book provides an in depth analysis of security issues and concerns in contemporary sport Featuring the work of leading researchers and practitioners from around the world it offers practical evidence based commentary and guidance Drawing on the latest research evidence the book examines the multiple stakeholders agencies and organizations involved in providing a safe space for spectators participants staff organizations communities and sponsors It considers the coordination of private and public entities in the sports security ecosystem including facility management event management law enforcement emergency management emergency medical services and state federal government partners as well as the private sector organizations providing support services The book also offers a comprehensive analysis of key issues and debates in contemporary sport security including terrorism cybersecurity spectator violence planning and assessment guidance for sport venues and events of all sizes management and policy considerations for leaders and decision makers and the lessons learned from critical incidents It introduces the core principles of research methods in sport security and looks ahead at future developments in this rapidly changing field This is essential reading for any advanced student researcher practitioner or policy maker with an interest in sport studies security studies event studies criminal justice management or public policy **Applied Wave Mathematics II** Arkadi Berezhovski, Tarmo Soomere, 2019-11-16 This book gathers contributions on various aspects of the theory and applications of linear and nonlinear waves and associated phenomena as well as approaches developed in a global partnership of researchers with the national Centre of Excellence in Nonlinear Studies CENS at the Department of Cybernetics of Tallinn University of Technology in Estonia The papers chiefly focus on the role of mathematics in the analysis of wave phenomena They highlight the complexity of related topics concerning wave generation propagation transformation and impact in solids gases fluids and human tissues while also sharing insights into selected mathematical methods for the analytical and numerical treatment of complex phenomena In addition the contributions derive advanced mathematical models share innovative ideas on computing and present novel applications for a number of research fields where both linear and nonlinear wave problems play an important role The papers are written in a tutorial style intended for non specialist



researchers and students The authors first describe the basics of a problem that is currently of interest in the scientific community discuss the state of the art in related research and then share their own experiences in tackling the problem Each chapter highlights the importance of applied mathematics for central issues in the study of waves and associated complex phenomena in different media The topics range from basic principles of wave mechanics up to the mathematics of Planet Earth in the broadest sense including contemporary challenges in the mathematics of society In turn the areas of application range from classic ocean wave mathematics to material science and to human nerves and tissues All contributions describe the approaches in a straightforward manner making them ideal material for educational purposes e g for courses master class lectures or seminar presentations

### **Classical and Relativistic Rational Extended Thermodynamics of Gases**

Tommaso Ruggeri, Masaru Sugiyama, 2021-04-22 Rational extended thermodynamics RET is the theory that is applicable to nonequilibrium phenomena out of local equilibrium It is expressed by the hyperbolic system of field equations with local constitutive equations and is strictly related to the kinetic theory with the closure method of the hierarchies of moment equations The book intends to present in a systematic way new results obtained by RET of gases in both classical and relativistic cases and it is a natural continuation of the book Rational Extended Thermodynamics beyond the Monatomic Gas by the same authors published in 2015 However this book addresses much wider topics than those of the previous book Its contents are as follows RET of rarefied monatomic gases and of polyatomic gases a simplified RET theory with 6 fields being valid far from equilibrium RET where both molecular rotational and vibrational modes exist mixture of gases with multi temperature The theory is applied to several typical topics sound waves shock waves etc and is compared with experimental data From a mathematical point of view RET can be regarded as a theory of hyperbolic symmetric systems of which it is possible to conduct a qualitative analysis The book represents a valuable resource for applied mathematicians physicists and engineers offering powerful models for many potential applications such as reentering satellites into the atmosphere semiconductors and nanoscale phenomena

### **Armadura Dinámica** Fouad Sabry, 2022-01-26

Qu es la armadura din mica El blindaje el ctrico o blindaje electromagn tico es un tipo de blindaje reactivo propuesto para la protecci n de barcos y veh culos blindados de combate contra cargas huecas y posiblemente armas cin ticas que utilizan una fuerte corriente el ctrica complementando o reemplazando los blindajes reactivos explosivos ERA convencionales C mo se beneficiar I Insights y validaciones sobre los siguientes temas Cap tulo 1 Armadura din mica Cap tulo 2 Armadura reactiva Cap tulo 3 Sistema de protecci n activa Cap tulo 4 Carga con forma Cap tulo 5 Laboratorio de Ciencia y Tecnolog a de la Defensa Cap tulo 6 Futuro sistema de efecto r pido Cap tulo 7 Ciencia de los materiales II Responder a las principales preguntas del p blico sobre blindaje din mico III Ejemplos del mundo real para el uso de armaduras din micas en muchos campos IV 17 ap ndices para explicar brevemente 266 tecnolog as emergentes en cada industria para tener una comprensi n completa de 360 grados de las tecnolog as de blindaje din mico Para qui n es este libro Profesionales estudiantes de pregrado y posgrado entusiastas

aficionados y aquellos que quieran ir m s all del conocimiento o la informaci n b sicos para cualquier tipo de armadura din mica

## The Enigmatic Realm of **History Of Shock Waves Explosions And Impact A Chronological And Biographical Reference**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **History Of Shock Waves Explosions And Impact A Chronological And Biographical Reference** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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