

University Of Queensland Hypersonics

Zonglin Jiang, Randy S. M. Chue

Hypersonic Missile Nonproliferation Richard H. Speier, George Nacouzi, Carrie Lee, Richard M. Moore, 2017-09-27 This report examines the implications of the proliferation of hypersonic missiles and possible measures to hinder it. This report first explores some of the potential strategic implications of the proliferation of hypersonic missile technology beyond the three major powers, the United States, Russia, and China. It then examines the process of such proliferation. And finally, it discusses possible means for hindering such proliferation.

Theories and Technologies of Hypervelocity Shock Tunnels Zonglin Jiang, Randy S. M. Chue, 2023-10-26 Learn to design and improve state-of-the-art aerodynamic ground testing facilities in this comprehensive reference book, with particular focus on high-enthalpy shock tunnels. Including the latest advances in detonation-driven high-enthalpy shock tunnels, readers will discover how to extend test time with brand new concepts and duplicate real hypersonic flight test conditions. Through a systematic approach, the book describes technologies for a variety of different drivers in hypersonic and high-enthalpy shock tunnels. The fundamental theories for hypersonic and high-enthalpy shock tunnels are described step-by-step, with examples throughout, providing an accessible introduction. Built on years of real-world experience, this book examines in detail the advantages and challenges of improving test flow qualities, including increasing total pressure and enthalpy, model scale amplification and test-time extending for different types of shock tunnel drivers. This is an ideal companion handbook for aerospace engineers as well as graduate students.

30th International Symposium on Shock Waves 2 Gabi Ben-Dor, Oren Sadot, Ozer Igra, 2017-08-01 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.

Advances in Hypersonics BALLMAN,BERTIN,PERIAUX,2012-12-06 These three volumes entitled Advances in Hypersonics contain the Proceedings of the Second and Third Joint US/Europe Short Course in Hypersonics which took place in Colorado Springs and Aachen. The Second Course was organized at the US Air Force Academy, USA in January 1989 and the Third Course at Aachen, Germany in October 1990. The main idea of these Courses was to present to chemists, computer scientists, engineers, experimentalists, mathematicians, and physicists state of the art lectures in scientific and technical disciplines including mathematical modeling, computational methods, and experimental measurements necessary to define the aerothermo dynamic environments for space vehicles such as the US Orbiter or the European Hermes flying at hypersonic speeds. The subjects can be grouped into the following areas: Physical environments, configuration requirements, propulsion systems (including airbreathing systems), experimental methods for external and internal flow, theoretical and numerical methods. Since hypersonic flight requires highly integrated systems, the Short Courses not only aimed to give in-depth analysis of hypersonic research and technology but also tried to broaden the view of attendees to give them the ability to understand the complex problem of hypersonic flight. Most of the participants in the Short Courses prepared a document based on their presentation for reproduction in the three volumes. Some authors spent considerable time and energy going well beyond their oral presentation to provide a quality assessment of the state of the art in their area of expertise as of 1989 and 1991.

Airbreathing Hypersonic Propulsion Claudio Bruno,2023-11-27 This book details science of hypersonics especially focusing on propulsion aspects such as supersonic combustion ramjets and their applications, and also includes lift and drag in hypersonic flight and their mathematical and physical explanation. It provides charts and data from hypersonic testing and measurements from actual vehicles and engines built in the past. Criteria to dimension hypersonic powered and unpowered vehicles (gliders) based on fundamental fluid dynamics and backed by flight testing; criteria to preliminary sizing vehicles and preliminary dimensioning of supersonic combustors are introduced. The book will serve better theoretical understanding of drag, lift and how to apply them to the design of hypersonic vehicles, as well as data to size vehicles and supersonic combustion ramjet (SCRJ) systems. This book will be a useful reference for researchers and designers in hypersonic vehicles but also second or third-year graduate students.

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.

Experimental Methods of Shock Wave Research Ozer Igra, Friedrich Seiler, 2015-10-31 This comprehensive and carefully edited volume presents a variety of experimental methods used in Shock Waves research. In 14 self contained chapters this 9th volume of the “Shock Wave Science and Technology Reference Library” presents the experimental methods used in Shock Tubes, Shock Tunnels and Expansion Tubes facilities. Also described is their set-up and operation. The uses of an arc heated wind tunnel and a gun tunnel are also contained in this volume. Whenever possible, in addition to the technical description some typical scientific results obtained using such facilities are described. Additionally, this authoritative book includes techniques for measuring physical properties of blast waves and laser generated shock waves. Information about active shock wave laboratories at different locations around the world that are not described in the chapters herein is given in the Appendix, making this book useful for every researcher involved in shock/blast wave phenomena.

Scramjet Propulsion Dora Musielak, 2022-11-16 Scramjet Propulsion Explore the cutting edge of HAP technologies with this comprehensive resource from an international leader in her field Scramjet Propulsion: A Practical Introduction delivers a comprehensive treatment of hypersonic air breathing propulsion and its applications. The book covers the most up-to-date hypersonic technologies, like endothermic fuels, fuel injection and flameholding systems, high temperature materials, and TPS, and offers technological overviews of hypersonic flight platforms like the X-43A, X-51A, and HiFIRE. It is organized around easy-to-understand explanations of technical challenges and provides extensive references for the information contained within. The highly accomplished author provides readers with a fulsome description of the theoretical underpinnings of hypersonic technologies, as well as critical design and technology issues affecting hypersonic air breathing propulsion technologies. The book’s combination of introductory theory and advanced instruction about individual hypersonic engine components is ideal for students and practitioners in fields as diverse as hypersonic vehicle and propulsion development for missile defense technologies, launch aerospaceplanes, and civilian transports. Over 250 illustrations and tables round out the material. Readers will also learn from: A thorough introduction to hypersonic flight, hypersonic vehicle concepts, and a review of fundamental principles in hypersonic air breathing propulsion Explorations of the aerothermodynamics of scramjet engines and the design of scramjet components, as well as hypersonic air breathing

propulsion combustors and fuels Analyses of dual-mode combustion phenomena, materials structures, and thermal management in hypersonic vehicles, and combined cycle propulsion An examination of CFD analysis, ground and flight testing, and simulation Perfect for researchers and graduate students in aerospace engineering, Scramjet Propulsion: A Practical Introduction is also an indispensable addition to the libraries of engineers working on hypersonic vehicle development seeking a state-of-the-art resource in one of the most potentially disruptive areas of aerospace research today.

Australian Perspectives on Global Air and Space Power Nicole Townsend, Kus Pandey, Jarrod Pendlebury, 2023-03-01 This book surveys historical and emerging global air and space power issues and provides a multidisciplinary understanding of the application of air and space power in the past and present, while exploring potential future challenges that global air forces may face. Bringing together leading and emerging academics, professionals, and military personnel from Australia within the field of air and space power, this edited collection traces the evolution of technological innovations, as well as the ethical and cultural frameworks which have informed the development of air and space power in the 20th and 21st centuries, and contemplates the future. It covers topics such as the insurgents' use of drones, the ethics of air strikes, the privatisation of air power, the historical trajectory of air power strategy, and the sociological implications of an 'air force' identity. While many of the chapters use Australian-based case studies for their analysis, they have broader applicability to a global readership, and several chapters examine other nations' experiences, including those of the United States and the United Kingdom. This accessible, illuminating book is an important addition to contemporary air and space power literature, and will be of great interest to students and scholars of air and space power, air warfare, military and international history, defence studies, and contemporary strategic studies, as well as military professionals.

Australia in Space Kerrie A. Dougherty, 2017-12-31 The exploration of space was seen as the greatest adventure of the Twentieth Century, while in the Twenty First Century space-based services have become an integral part of our daily lives. Although it is not often recognised, Australia has had its part to play in setting the world on the road to the stars and was one of the earliest nations to launch its own satellite. Today, the country is one of the largest users of space-based services. This revised and updated edition of Space Australia tells the story of Australia's involvement with space activities, from the earliest rocketeers to the latest satellite projects. It describes the vision, high hopes and achievements of professional space scientists and engineers, in both the civil and defence spheres, as well as the inspired amateurs and the new-breed of young space entrepreneurs who want to contribute to Australia's space future. The book also highlights the challenges of maintaining an Australian commitment to space activities through changing political and economic circumstances.

29th International Symposium on Shock Waves 1 Riccardo Bonazza, Devesh Ranjan, 2015-07-09 This proceedings present the results of the 29th International Symposium on Shock Waves (ISSW29) which was held in Madison, Wisconsin, U.S.A., from July 14 to July 19, 2013. It was organized by the Wisconsin Shock Tube Laboratory, which is part of the College of

Engineering of the University of Wisconsin-Madison. The ISSW29 focused on the following areas: Blast Waves, Chemically Reactive Flows, Detonation and Combustion, Facilities, Flow Visualization, Hypersonic Flow, Ignition, Impact and Compaction, Industrial Applications, Magnetohydrodynamics, Medical and Biological Applications, Nozzle Flow, Numerical Methods, Plasmas, Propulsion, Richtmyer-Meshkov Instability, Shock-Boundary Layer Interaction, Shock Propagation and Reflection, Shock Vortex Interaction, Shock Waves in Condensed Matter, Shock Waves in Multiphase Flow, as well as Shock Waves in Rarefield Flow. The two Volumes contain the papers presented at the symposium and serve as a reference for the participants of the ISSW 29 and individuals interested in these fields.

Shock Waves Zonglin Jiang, 2010-05-30 The 24th International Symposium on Shock Waves (ISSW24) was held at the Beijing Friendship Hotel during July 11-16, 2004, in Beijing. It was a great pleasure for the Local Organizing Committee to organize the ISSW in China for the first time, because forty-seven years have passed since the First Shock Tube Symposium was held in 1957 at Albuquerque. The ISSW24 had to be postponed for one year because of the SARS outbreak in Beijing shortly before the Symposium was scheduled to be held in 2003, but it has achieved success due to the continuous support and kind understanding from all the delegates. It is very heart-warming to have had such an experience and I am very happy to have served as chairman for the Symposium. I would like to thank all for the contributions and help that they have given us over the past three years, without which we would not have had the Symposium. A total of 460 abstracts were submitted to the ISSW24. Each of the abstracts was evaluated by three members of the Scientific Review Committee and the decision on acceptance was made based on the reviewers' reports. 195 oral papers, including 9 plenary lectures, were accepted to be presented in three parallel sessions, and 135 poster papers in three dedicated poster sessions. Topics discussed in these papers cover all aspects of shock wave research.

Emerging Military Technologies Wilson W.S. Wong, 2013-01-07 This book examines emerging defense technologies such as directed energy weapons, nanotech devices, and bioscience applications that have the potential to dominate international relations in the future, just as nuclear weapons and space infrastructure-assisted conventional weapons do now. *Emerging Military Technologies: A Guide to the Issues* examines the potential of the United States to bring new technologies to deployment in the service of America's security and defense. The work also discusses how other international actors may regard the United States' investment in these high-tech capabilities, identifying possible resultant counter actions, and presents several divergent viewpoints on what the future may bring. The book thoroughly explores three general categories of emerging technologies: autonomous computers, nanotechnology and biotechnology, and the interrelated topics of directed energy weapons and ubiquitous space access. Security studies expert Wilson W.S. Wong balances coverage of today's cutting-edge science and engineering with treatment of real-world concerns of effectiveness, military ethics, and international relations in the 21st century. An invaluable resource for members of the military and intelligence communities,

this book also provides general readers with an accessible introduction to these highly technical 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.

43rd AIAA Aerospace Sciences Meeting & Exhibit ,2005

NASA 50th Anniversary Proceedings: NASA's First 50 Years: Historical Perspectives Steven J. Dick, National Aeronautics and Space Administration, 2010-07-07 On 29 July 1958, President Dwight D. Eisenhower signed the National Aeronautics and Space Act, creating the National Aeronautics and Space Administration (NASA), which became operational on 1 October of that year. Over the next 50 years, NASA achieved a set of spectacular feats, ranging from advancing the well-established field of aeronautics to pioneering the new fields of Earth and space science and human spaceflight. In the midst of the geopolitical context of the Cold War, 12 Americans walked on the Moon, arriving in peace “for all mankind.” Humans saw their home planet from a new perspective, with unforgettable Apollo images of Earthrise and the “Blue Marble,” as well as the “pale blue dot” from the edge of the solar system. A flotilla of spacecraft has studied Earth, while other spacecraft have probed the depths of the solar system and the universe beyond. In the 1980s, the evolution of aeronautics gave us the first winged human spacecraft, the Space Shuttle, and the International Space Station stands as a symbol of human cooperation in space as well as a possible way station to the stars. With the Apollo fire and two Space Shuttle accidents, NASA has also seen the depths of tragedy. In this volume, a wide array of scholars turn a critical eye toward NASA’s first 50 years, probing an institution widely seen as the premier agency for exploration in the world, carrying on a long tradition of exploration by the United States and the human species in general. Fifty years after its founding, NASA finds itself at a crossroads that historical perspectives can only help to illuminate.

37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit ,2001

Air Force Magazine ,2016

Aircraft & Aerospace Asia-Pacific ,2004

Shock Waves @ Marseille I Raymond Brun, Lucien Z. Dumitrescu, 2012-12-06 Recently, there have been significant

advances in the fields of high-enthalpy hypersonic flows, high-temperature gas physics, and chemistry shock propagation in various media, industrial and medical applications of shock waves, and shock-tube technology. This series contains all the papers and lectures of the 19th International Symposium on Shock Waves held in Marseille in 1993. They are published in four topical volumes, each containing papers on related topics, and preceded by an overview written by a leading international expert. The volumes may be purchased independently.

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