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Bubble Dynamics and Shock Waves

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Yasuyuki Horie



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Bubble Dynamics and Shock Waves Can F. Delale, 2012-10-07 This book explores the interplay of bubble dynamics and shock waves covering shock wave emission by laser generated bubbles pulsating bubbles near boundaries interaction of shock waves with bubble clouds applications in shock wave lithotripsy and more *Shock Wave Science and Technology Reference Library, Vol. 1* Rini van Dongen, 2007-04-08 This book offers a timely reference on shock waves in multiphase flows including new viewpoints and burgeoning developments This volume treats shock and expansion waves in complex bubbly liquids and cryogenic liquids It also examines the relationship of shock waves with phase transitions and induced phase transitions as well as their interaction with solid foams textiles porous and granular media **Cavitation and Bubble Dynamics** Phoevos Koukouvinis, Manolis Gavaises, 2021-09-24 Cavitation and Bubble Dynamics Fundamentals and Applications examines the latest advances in the field of cavitation and multiphase flows including associated effects such as material erosion and spray instabilities This book tackles the challenges of cavitation hindrance in the industrial world while also drawing on interdisciplinary research to inform academic audiences on the latest advances in the fundamentals Contributions to the book come from a wide range of specialists in areas including fuel systems hydropower marine engineering multiphase flows and computational fluid mechanics allowing readers to discover novel interdisciplinary experimentation techniques and research results This book will be an essential tool for industry professionals and researchers working on applications where cavitation hindrance affects reliability noise and vibrations Covers a wide range of cavitation and bubble dynamics phenomena including shock wave emission jetting and luminescence Provides the latest advice about applications including cavitation tunnels cavitation testing flow designs to avoid cavitation in pumps and other hydromachinery and flow lines Describes novel experimental techniques such as x ray imaging and new computational techniques 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 **Proceedings of the 34th International Symposium on Shock Waves, Volume 3: Applications 2** Rho Shin

Myong, Heuy Dong Kim, 2025-09-03 Shock waves are strong pressure waves of irreversible processes in elastic media such as gas liquid or solid generated by supersonic aircraft explosions or other phenomena that create rapid changes in pressure The ISSW34 proceedings cover theoretical experimental and computational studies of these shock waves and related phenomena both fundamental and applied providing the most up to date information to physicists chemists engineers and applied mathematicians engaged in shock wave research The present three volumes bring the most recent studies on diverse topics such as shock waves in gases and liquids and solids shock waves in internal flows detonation supersonic and hypersonic flows nozzle flows and supersonic jet as well as emerging topics such as advanced shock tube design and utilization recent development in diagnostics and flow visualization shock waves in multiphase flows and detonation engines Volume 3 contains 55 papers covering the applications part 2 of shock waves to various fields encompassing mechanical engineering aerospace engineering space sciences geosciences materials sciences life sciences and medicine

Professor I. I. Glass: A Tribute and Memorial Kazuyoshi Takayama, Ozer Igra, 2012-10-16 The book provides personal memories along with description of scientific works written by ex graduate students and research associates of the late Professor Glass The described research work covers a wide range of shock wave phenomena resulting from seeds planted by Professor Glass Professor Glass was born in Poland in 1918 He immigrated together with his parents to Canada at the age of 12 and received all his professional education at the University of Toronto Canada He became a world recognized expert in shock wave phenomena and during his 45 years of active research he supervised more than 125 master and doctoral students post doctoral fellows and visiting research associates In this book seven of his past students research associates describe their personal memories of Professor Glass and present some of their investigations in shock wave phenomena which sprung from their past work with Professor Glass Specifically these investigations include underwater shock waves shock bubble interaction medical applications of shock wave various types of shock tubes and shock tube techniques shock wave attenuation and different types of shock wave reflections

Shock Wave Science and Technology Reference Library, Vol. 2 Y. Horie, 2010-02-12 This book is the first of several volumes on solids in the Shock Wave Science and Technology Reference Library This is a unique collection and the library as a whole sets out to comprehensively and authoritatively cover and review at research level the subject matter with all its ramifications All the chapters are self contained and can be read independently of each other though they are of course thematically interrelated

Shock Wave Science and Technology Reference Library, Vol. 3 Yasuyuki Horie, 2008-09-26 This book is the second volume of Solids Volumes in the Shock Wave Science and Technology Reference Library These volumes are primarily concerned with high pressure shock waves in solid media including detonation and high velocity impact and penetration events This volume contains four articles The first two describe the reactive behavior of condensed phase explosives and the remaining two discuss the inert mechanical response of solid materials The articles are each self contained and can be read independently of each other They offer a timely reference for beginners as well as professional scientists and

engineers covering the foundations and the latest progress and include burgeoning development as well as challenging unsolved problems The first chapter by S Sheild and R Engelke discusses the shock initiation and detonation phenomena of solids explosives The article is an outgrowth of two previous review articles Explosives in vol 6 of Encyclopedia of Applied Physics VCH 1993 and Initiation and Propagation of Detonation in Condensed Phase High Explosives in High Pressure Shock Compression of Solids III Springer 1998 This article is not only an dated review but also offers a concise heuristic introduction to shock waves and condensed phase detonation The authors emphasize the point that detonation is not an uncontrollable chaotic event but that it is an orderly event that is governed by and is describable in terms of the conservation of mass momentum energy and certain material specific properties of the explosive *Shock Waves Science and Technology Library, Vol. 6* F. Zhang, 2012-03-19 This book as a volume of the Shock Wave Science and Technology Reference Library is primarily concerned with the fundamental theory of detonation physics in gaseous and condensed phase reactive media The detonation process involves complex chemical reaction and fluid dynamics accompanied by intricate effects of heat light electricity and magnetism a contemporary research field that has found wide applications in propulsion and power hazard prevention as well as military engineering The seven extensive chapters contained in this volume are Chemical Equilibrium Detonation S Bastea and LE Fried Steady One Dimensional Detonations A Higgins Detonation Instability HD Ng and F Zhang Dynamic Parameters of Detonation AA Vasiliev Multi Scaled Cellular Detonation D Desbordes and HN Presles Condensed Matter Detonation Theory and Practice C Tarver Theory of Detonation Shock Dynamics JB Bdzil and DS Stewart The chapters are thematically interrelated in a systematic descriptive approach though each chapter is self contained and can be read independently from the others It offers a timely reference of theoretical detonation physics for graduate students as well as professional scientists and engineers Shock Wave Science and Technology Reference Library, Vol. 3 Yasuyuki Horie, 2009-08-29 This book is the second volume of Solids Volumes in the Shock Wave Science and Technology Reference Library These volumes are primarily concerned with high pressure shock waves in solid media including detonation and high velocity impact and penetration events This volume contains four articles The first two describe the reactive behavior of condensed phase explosives and the remaining two discuss the inert mechanical response of solid materials The articles are each self contained and can be read independently of each other They offer a timely reference for beginners as well as professional scientists and engineers covering the foundations and the latest progress and include burgeoning development as well as challenging unsolved problems The first chapter by S Sheild and R Engelke discusses the shock initiation and detonation phenomena of solids explosives The article is an outgrowth of two previous review articles Explosives in vol 6 of Encyclopedia of Applied Physics VCH 1993 and Initiation and Propagation of Detonation in Condensed Phase High Explosives in High Pressure Shock Compression of Solids III Springer 1998 This article is not only an dated review but also offers a concise heuristic introduction to shock waves and condensed phase detonation The authors emphasize the point that d

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