Fundamentals Of Shaped Charges

Explosives Engineering
Explosive Effects and Applications
Ballistics 18th International Symposium
Fundamentals of Business (black and White)
Ryan's Ballistic Trauma
Ballistics 2011
Parenting Matters
Fundamentals of Shaped Charges
Balanchine the Teacher
Explosion Shock Waves and High Strain Rate Phenomena
Fundamentals of Biostatistics
Electromagnetics in Magnetic Resonance Imaging
Ambipolar Materials and Devices
A Practical Guide
My Shapes Book
Fundamentals of Computational Neuroscience
Fundamentals that Shaped the First Generation of New York City Ballet Dancers
Supporting Parents of Children Ages 0-8
Suki Schorer on Balanchine Technique
A Meshfree Particle Method
Armour
Physical Principles, Related Applications, and Ongoing Developments
Fundamentals of Machine Component Design
Design and Development of Fighting Vehicles
Almond Eyes
Fundamentals of Electric Propulsion
Proceedings of AIMTDR 2018
A Publication of the Shock and Vibration Information Center, Naval Research Laboratory
Fundamentals of Shaped Charges
An Optimization Study of an Explosive-driven Pile
Collision Phenomena in Liquids and Solids
Structural change, fundamentals, and growth : a framework and case studies
The Shock and Vibration Digest
Technical Abstract Bulletin
Handbook of Electrochemistry
Advances in Forming, Machining and Automation
Learn 2D and 3D Shapes Picture Book with Matching Objects. Ages 2-7 for Toddlers, Preschool and Kindergarten Kids
Essentials of Paleomagnetism

JAELYN TRISTIAN

Explosives Engineering Cengage Learning
The experimental results show that the details of the motion are not in agreement with the theoretical calculations because the tube does not behave as an incompressible fluid, but is accelerated in a step-wise fashion characteristics of motion produced by shock waves. Nevertheless, the data are in agreement with terminal velocities calculated from the theory.
Explosive Effects and Applications World Scientific
"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D. Opdyke, University of Florida
Infinity Publishing (PA)
The book presents the papers presented at the 6th international conference on Explosion, Shock Wave and High Strain-Rate Phenomena (ESHP). Topics covered include: Advanced Manufacturing under Impact/Shock Loading, Detonation of High Pressure Flammable Gas in Closed Spaces, High Strain-Rate Behaviour of Auxetic Cellular Structures, Underwater Shock Waves Generation, Magnetic Pressure Welding of Aluminum Sheets, Shock Synthesis of Zirconium Oxides, Impact Joining of Dissimilar Metals, High-Speed Oblique Collision of Metals, Dynamic Behavior of Dislocation Wall Structures, Tensile Strength of Rock at High Strain Rates, Fiber Reinforced Mortar, Impact Analysis of Carbon Fiber Reinforced Polymer, Explosive Welding , Underwater Explosive Welding , Making Ultrafine Explosives, Aluminum-Steel Explosive Cladding, Explosively Cladded Aluminum Hybrid Composites, Explosive Clads with Interlayers.
Ballistics 18th International Symposium Elsevier
Throughout most of the twentieth century, electric propulsion was considered the technology of the future. Now, the future has arrived. This important new book explains the fundamentals of electric propulsion for spacecraft and describes in detail the physics and characteristics of the two major electric thrusters in use today, ion and Hall thrusters. The authors provide an introduction to plasma physics in order to allow readers to understand the models and derivations used in determining electric thruster performance. They then go on to present detailed explanations of: Thruster principles Ion thruster plasma generators and accelerator grids Hollow cathodes Hall thrusters Ion and Hall thruster plumes Flight ion and Hall thrusters Based largely on research and development performed at the Jet Propulsion Laboratory (JPL) and complemented with scores of tables, figures, homework problems, and references, Fundamentals of Electric Propulsion: Ion and Hall Thrusters is an indispensable textbook for advanced undergraduate and graduate students who are preparing to enter the aerospace industry. It also serves as an equally valuable resource for professional engineers already at work in the field.
Fundamentals of Business (black and White) John Wiley & Sons
Armor plays a significant role in the protection of warriors. During the course of history, the introduction of new

materials and improvements in the materials already used to construct armor has led to better protection and a reduction in the weight of the armor. But even with such advances in materials, the weight of the armor required to manage threats of ever-increasing destructive capability presents a huge challenge. Opportunities in Protection Materials Science and Technology for Future Army Applications explores the current theoretical and experimental understanding of the key issues surrounding protection materials, identifies the major challenges and technical gaps for developing the future generation of lightweight protection materials, and recommends a path forward for their development. It examines multiscale shockwave energy transfer mechanisms and experimental approaches for their characterization over short timescales, as well as multiscale modeling techniques to predict mechanisms for dissipating energy. The report also considers exemplary threats and design philosophy for the three key applications of armor systems: (1) personnel protection, including body armor and helmets, (2) vehicle armor, and (3) transparent armor. Opportunities in Protection Materials Science and Technology for Future Army Applications recommends that the Department of Defense (DoD) establish a defense initiative for protection materials by design (PMD), with associated funding lines for basic and applied research. The PMD initiative should include a combination of computational, experimental, and materials testing, characterization, and processing research conducted by government, industry, and academia.

Ryan's Ballistic Trauma Fundamentals of Shaped Charges

When still a young dancer in the New York City Ballet, Suki Schorer was chosen by George Balanchine to lecture, demonstrate, and teach--he recognized in her that rare dancer who not only performs superbly but can also successfully pass along what she knows to others. In Suki Schorer on Balanchine Technique, she commits to paper the fruit of her twenty-four-year collaboration with Balanchine in a close examination of his technique for teachers, scholars, and advanced students of the ballet. Schorer discusses the crucial work at the barre as well as center work, port de bras, pointework, jumps, partnering, and more. Her recollections of her own tutelage under Balanchine and her brilliant use of scores of his remarks about dancing and dancers lend both authority and intimacy to this extraordinary analysis of Balanchine's legacy to the future of dance. Abundantly illustrated throughout with instructional photographs featuring members of the New York City Ballet, this book will serve as an indispensable testament to Balanchine's ideas on technique and performance.

Ballistics 2011 Royal Society of Chemistry

Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design, analysis, and application. In-depth coverage of major topics, including free body diagrams, force flow concepts, failure theories, and fatigue design, are coupled with specific applications to bearings, springs, brakes, clutches, fasteners, and more for a real-world functional body of knowledge. Critical thinking and problem-solving skills are strengthened through a graphical

procedural framework, enabling the effective identification of problems and clear presentation of solutions. Solidly focused on practical applications of fundamental theory, this text helps students develop the ability to conceptualize designs, interpret test results, and facilitate improvement. Clear presentation reinforces central ideas with multiple case studies, in-class exercises, homework problems, computer software data sets, and access to supplemental internet resources, while appendices provide extensive reference material on processing methods, joinability, failure modes, and material properties to aid student comprehension and encourage self-study.

Parenting Matters National Academies Press

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 mathematic 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.

Fundamentals of Shaped Charges Univ of California Press

A unique and in-depth discussion uncovering the unifying features of collision phenomena in liquids and solids, along with applications.

Balanchine the Teacher World Scientific

Presented here is an introduction to the art and science of developing shaped charges. The authors describe the history of shaped charges and the principles governing their design, and give a variety of example applications. The book includes the discussion of Gurney and Taylor methods, jet formation, the visco-plastic model, jet penetration, fabrication, computational aspects, as well as showing the reader how to design shaped charges for different applications.

Explosion Shock Waves and High Strain Rate Phenomena Morgan & Claypool Publishers

The new edition of Fundamentals of Computational Neuroscience build on the success and strengths of the first edition. Completely redesigned and revised, it introduces the theoretical foundations of neuroscience with a focus on the nature of information processing in the brain.

Fundamentals of Biostatistics Oxford University Press

Bernard Rosner's FUNDAMENTALS OF BIOSTATISTICS is a practical introduction to the methods, techniques, and computation of statistics with human subjects. It prepares students for their future courses and careers by introducing the statistical methods most

often used in medical literature. Rosner minimizes the amount of mathematical formulation (algebra-based) while still giving complete explanations of all the important concepts. As in previous editions, a major strength of this book is that every new concept is developed systematically through completely worked out examples from current medical research problems. Most methods are illustrated with specific instructions as to implementation using software either from SAS, Stata, R, Excel or Minitab. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Electromagnetics in Magnetic Resonance Imaging John Wiley & Sons

Decades of research have demonstrated that the parent-child dyad and the environment of the familyâ€"which includes all primary caregiversâ€"are at the foundation of children's well- being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

Ambipolar Materials and Devices Springer Science & Business Media

Fundamentals of Shaped ChargesWiley-Interscience

A Practical Guide National Academies Press

Electrochemistry plays a key role in a broad range of research and applied areas including the exploration of new inorganic and organic compounds, biochemical and biological systems, corrosion, energy applications involving fuel cells and solar cells, and nanoscale

investigations. The Handbook of Electrochemistry serves as a source of electrochemical information, providing details of experimental considerations, representative calculations, and illustrations of the possibilities available in electrochemical experimentation. The book is divided into five parts: Fundamentals, Laboratory Practical, Techniques, Applications, and Data. The first section covers the fundamentals of electrochemistry which are essential for everyone working in the field, presenting an overview of electrochemical conventions, terminology, fundamental equations, and electrochemical cells, experiments, literature, textbooks, and specialized books. Part 2 focuses on the different laboratory aspects of electrochemistry which is followed by a review of the various electrochemical techniques ranging from classical experiments to scanning electrochemical microscopy, electrogenerated chemiluminesence and spectroelectrochemistry. Applications of electrochemistry include electrode kinetic determinations, unique aspects of metal deposition, and electrochemistry in small places and at novel interfaces and these are detailed in Part 4. The remaining three chapters provide useful electrochemical data and information involving electrode potentials, diffusion coefficients, and methods used in measuring liquid junction potentials. * serves as a source of electrochemical information * includes useful electrochemical data and information involving electrode potentials, diffusion coefficients, and methods used in measuring liquid junction potentials * reviews electrochemical techniques (incl. scanning electrochemical microscopy, electrogenerated chemiluminesence and spectroelectrochemistry)

My Shapes Book Springer

The propulsion of metals by the detonation of explosives in direct contact with them and propulsion effectiveness of various explosives for such purposes was studied. The results of these studies were applied to the design and evaluation of explosives systems for pile driving. It was determined that piles with external grooves along their entire lengths which are driven by the detonation of high explosives upon the lips of these grooves are not as effectively propelled as those which are driven by explosive 'hammerheads' on top of the piles. The results indicate that long, heavy-walled steel piles may successfully be driven into ordinary and frozen ground by the appropriate design and use of such explosive hammerhead systems. (Author).

Fundamentals of Computational Neuroscience Materials Research Forum LLC

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Fundamentals that Shaped the First Generation of New York City Ballet Dancers Springer Nature

This is the first-ever book on smoothed particle hydrodynamics (SPH) and its variations, covering the theoretical background, numerical techniques, code implementation issues, and many novel and interesting applications. It contains many appealing and practical examples, including free surface flows, high explosive detonation and explosion,

underwater explosion and water mitigation of explosive shocks, high velocity impact and penetration, and multiple scale simulations coupled with the molecular dynamics method. An SPH source code is provided and coupling of SPH and molecular dynamics is discussed for multiscale simulation, making this a friendly book for readers and SPH users.

Supporting Parents of Children Ages 0-8 CreateSpace

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.

Suki Schorer on Balanchine Technique John Wiley & Sons

A hydrocode refers to a computer program used for the study of the dynamic response of materials and structures to impulse (primary blast), impact (involving everything from car and aircraft collisions to impacts of space structures by assorted debris). The understanding of hydrocodes requires knowledge of numerical methods in the code as well as a keen understanding of the physics of the problem being addressed. This can take many years to learn via codes. There are currently a number of titles addressing the physics of high pressure and high rate material but nothing introducing the novice to the fundamentals of this highly technical and complicated study. Introduction to Hydrocodes bridges the gap, bringing together the large body of literature, scattered through diverse journals, government and corporate reports and conference proceedings. As valuable as the text are the cited references and the combination will take years off the preparation time of future code users. Introduces complex physics essential for the understanding of hydrocodes Infused with over 30 years practical experience in the field Brings together a wide range of literature saving valuable research time