

Fundamentals Of Shaped Charges

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Fundamentals Of Shaped Charges 2023-02-01
Haiden Porter

Fundamentals of Geophysics Wiley-Interscience

Ryan's Ballistic Trauma 3rd Edition provides a concise guide to the clinical and operational issues surrounding the management of the ballistic casualty. This book crystallizes the knowledge and experience accrued by those dealing with ballistic trauma on a regular basis and extends this to those who have to manage these patients on an occasional basis only. Ryan's Ballistic Trauma 3rd Edition is a valuable reference tool for all medical and paramedical personnel involved in the care of patients with ballistic injury. It is especially relevant for consultants and senior trainees in surgery, anesthesia and emergency medicine who are likely to be involved in the management of these unique injuries. This book is essential reading for pre-hospital care providers and nurses working in the emergency room, as well as military surgeons and medical and nursing staff on deployment in regions of conflict.

Notes on Projectile Impact Analyses 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.

Shock Waves in the Study of Shaped Charges Springer Science & Business Media

Rock Blasting and Explosives Engineering covers the practical engineering aspects of many different kinds of rock blasting. It includes a thorough analysis of the cost of the entire process of tunneling by drilling and blasting in comparison with full-face boring. Also covered are the fundamental sciences of rock mass and material strength, the thermal decomposition, burning, shock initiation, and detonation behavior of commercial and military explosives, and systems for charging explosives into drillholes. Functional descriptions of all current detonators and initiation systems are provided. The book includes chapters on flyrock, toxic fumes, the safety of explosives, and even explosives applied in metal working as a fine art. Fundamental in its approach, the text is based on the practical industrial experience of its authors. It is supported by an abundance of tables, diagrams, and figures. This combined textbook and handbook provides students, practitioners, and researchers in mining, mechanical, building construction, geological, and petroleum engineering with a source from which to gain a thorough understanding of the constructive use of explosives.

Explosives Engineering CRC Press

This book presents comprehensive experimental, numerical, and theoretical research on projectile impact analysis, such as the rigid projectile penetration/perforation of concrete and metallic targets, and shaped-charge-formed projectile and jet penetrations. Concrete and metal materials are widely used in protective structures in both civil engineering and armored vehicles, such as military fortifications, underground shelters, infantry fighting vehicles, and tanks, which are designed to withstand intentional or accidental impact loadings caused by projectiles and fragments, and the responses of these targets under projectile impact have been a topic of discussion for several decades. Written for researchers and engineers working in the fields of protective structures and high-speed penetration mechanics, the book is also a valuable reference for senior undergraduate and postgraduate students majoring in defense engineering, terminal ballistics and other related fields.

Opportunities in Protection Materials Science and Technology for Future Army Applications Packt Publishing Ltd

This report provides a basic description of the shaped charge concept, history of shaped charges, and various applications of shaped charges. In addition, three current research topics in the shaped charge field are presented.

Shape Memory Polymers Springer Nature

Thoroughly revised edition of the classic text on polymer processing The Second Edition brings the classic text on polymer processing thoroughly up to date with the latest fundamental developments in polymer processing, while retaining the critically acclaimed approach of the First Edition. Readers are provided with the complete panorama of polymer processing, starting with fundamental concepts through the latest current industry practices and future directions. All the chapters have been revised and updated, and four new chapters have been added to introduce the latest developments. Readers familiar with the First Edition will discover a host of new material, including: * Blend and alloy microstructuring * Twin screw-based melting and chaotic mixing mechanisms * Reactive processing * Devolatilization--theory, mechanisms, and industrial practice * Compounding--theory and industrial practice * The increasingly important role of computational fluid mechanics * A systematic approach to machine configuration design The Second Edition expands on the unique approach that distinguishes it from comparative texts. Rather than focus on specific processing methods, the authors assert that polymers have a similar experience in any processing machine and that these experiences can be described by a set of elementary processing steps that prepare the polymer for any of the shaping methods. On the other hand, the authors do emphasize the unique features of particular polymer processing methods and machines, including the particular elementary step and shaping mechanisms and geometrical solutions. Replete with problem sets and a solutions manual for instructors, this textbook is recommended for undergraduate and graduate students in chemical engineering and polymer and materials engineering and science. It will also prove invaluable for industry professionals as a fundamental polymer processing analysis and synthesis reference.

Calm Technology Routledge

Learn 2 dimensional and 3 dimensional shapes through fun shape characters. See examples of everyday objects that reflect the shapes. Colorful illustrations and basic words. The ideal learning book for toddlers, children in preschool, kindergarten or a higher grade, for ages 2 through to 7. Fundamentals of Mathematical Logic Univ of California Press

Intending these truncated proceedings of the May 2001 meeting to serve as a textbook rather than an ordinary proceedings volume, Gaune-Escard (Institut Universitaire des Systemes Thermiques Industriels, France) presents 16 papers topics of molten salts including electronic properties, light and neutron scattering, thermodynamic modeling, pyrochemistry in the nuclear industry, electrochemical techniques, and molten salt batteries. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

The Shaped Charge Concept. Part 3. Applications of Shaped Charges Elsevier

This book introduces the reader to all the basic physical building blocks of climate needed to understand the present and past climate of Earth, the climates of Solar System planets, and the climates of extrasolar planets. These building blocks include thermodynamics, infrared radiative transfer, scattering, surface heat transfer and various processes governing the evolution of atmospheric composition. Nearly four hundred problems are supplied to help consolidate the reader's understanding, and to lead the reader towards original research on planetary climate. This textbook is invaluable for advanced undergraduate or beginning graduate students in atmospheric science, Earth and planetary science, astrobiology, and physics. It also provides a superb reference text for researchers in these subjects, and is very suitable for academic researchers trained in physics or chemistry who wish to rapidly gain enough background to participate in the excitement of the new research opportunities opening in planetary climate.

Ultrashort Laser Pulse Phenomena Springer

This book provides you with an accessible overview of network management covering management not just of networks themselves but also of services running over those networks. It also explains the different technologies that are used in network management and how they relate to each other.--[book cover].

Principles of Agricultural Economics National Academies Press

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.

Plasmonics: Fundamentals and Applications John Wiley & Sons

Shape-memory polymers (SMP) are a unique branch of the smart materials family which are capable of changing shape on-demand upon exposure to external stimulus. The discovery of SMP made a significant breakthrough in the developments of novel smart materials for a variety of engineering applications, superseded the traditional materials, and also influenced the current methods of product designing. This book provides the latest advanced information of on-going research domains of SMP. This will certainly enlighten the reader to the achievements and tremendous potentials of SMP. The basic fundamentals of SMP, including shape-memory mechanisms and mechanics are described. This will aid reader to become more familiar with SMP and the basic concepts, thus guiding them in undergoing independent research in the SMP field. The book also provides the reader with associated challenges and existing application problems of SMP. This could assist the reader to focus more on these issues and further exploit their knowledge to look for innovative solutions. Future outlooks of SMP research are discussed as well. This book should prove to be extremely useful for academics, R&D managers, researcher scientists, engineers, and all others related to the SMP research.

Making the World Work Better Pearson Education

This open access book offers a timely guide to challenges and current practices to permanently plug and abandon hydrocarbon wells. With a focus on offshore North Sea, it analyzes the process of plug and abandonment of hydrocarbon wells through the establishment of permanent well barriers. It provides the reader with extensive knowledge on the type of barriers, their functioning and verification. It then discusses plug and abandonment methodologies, analyzing different types of permanent plugging materials. Last, it describes some tests for verifying the integrity and functionality of installed permanent barriers. The book offers a comprehensive reference guide to well plugging and abandonment (P&A) and well integrity testing. The book also presents new technologies that have been proposed to be used in plugging and abandoning of wells, which might be game-changing technologies, but they are still in laboratory or testing level. Given its scope, it addresses students and researchers in both academia and industry. It also provides

information for engineers who work in petroleum industry and should be familiarized with P&A of hydrocarbon wells to reduce the time of P&A by considering it during well planning and construction.

Ryan's Ballistic Trauma Springer Science & Business Media

Applying fundamentals of marketing to commercial passenger air transportation, this textbook puts the emphasis on marketing principles and illustrative ways in which airlines can distinguish themselves within the highly competitive global marketplace. Fundamentals of Airline Marketing begins with a survey of current airline business strategies and the macro forces that have shaped the airline industry in the past and will continue to do so in the future. The growing importance of technology is discussed both from the perspective of better understanding customer needs and engaging more effectively with them. The central role of the "customer" is explored through the lens of modern segmentation and branding approaches. Coverage then shifts to the tactical decision areas consisting of the 4Ps—product, place, promotion, and price—in which marketers shape and execute their strategies. The book concludes with a focus on executing marketing initiatives internally through customer-facing employee groups and externally through the measurement and management of the customer experience. Fundamentals of Airline Marketing: • is an accessible textbook on the fundamentals of marketing for commercial passenger air transportation; • chronicles the marketing innovations and controversies that have been central to the historic shift in airline fortunes; • demonstrates how airline decisions fit within the fundamentals of marketing and how the marketplace is continuing to evolve; • provides a bridge between key marketing principles and their specific application to the airline industry in each chapter. This textbook is written primarily for undergraduate college students enrolled in aviation business administration programs and related courses. It will also serve as an accessible primer on airline marketing for industry professionals not presently working in marketing and for frontline airline employees seeking to learn more about marketing.

Toward Combined Arms Warfare Smithers Rapra

Create AI applications in Python and lay the foundations for your career in data science Key Features Practical examples that explain key machine learning algorithms Explore neural networks in detail with interesting examples Master core AI concepts with engaging activities Book Description Machine learning and neural networks are pillars on which you can build intelligent applications. Artificial Intelligence and Machine Learning Fundamentals begins by introducing you to Python and discussing AI search algorithms. You will cover in-depth mathematical topics, such as regression and classification, illustrated by Python examples. As you make your way through the book, you will progress to advanced AI techniques and concepts, and work on real-life datasets to form decision trees and clusters. You will be introduced to neural networks, a powerful tool based on Moore's law. By the end of this book, you will be confident when it comes to building your own AI applications with your newly acquired skills! What you will learn Understand the importance, principles, and fields of AI Implement basic artificial intelligence concepts with Python Apply regression and classification concepts to real-world problems Perform predictive analysis using decision trees and random forests Carry out clustering using the k-means and mean shift algorithms Understand the fundamentals of deep learning via practical examples Who this book is

for Artificial Intelligence and Machine Learning Fundamentals is for software developers and data scientists who want to enrich their projects with machine learning. You do not need any prior experience in AI. However, it's recommended that you have knowledge of high school-level mathematics and at least one programming language (preferably Python).

My Shapes Book DIANE Publishing

Modern Manufacturing Methodologies have undergone three different evolutionary stages over the past 200 years. Before there were modern manufacturing plants, the world only knew skilled craftsmen who labored as individuals in very small groups to produce goods and services. The first factory evolution came about when James Watt invented the steam engine. Metal cutting, forming and assembly machines were co-located near streams or rivers forming what we now call the Job Shop or the American Armory System. The second factory evolution began when Henry Ford introduced the first modern assembly line using interchangeable parts and standardized manufacturing procedures. This gave rise to the modern flow shop, which reached its zenith during WW II. In the late 1970's, the third industrial evolution began when Taiichi Ohno and the Toyota Motor Company introduced what we now call Lean Manufacturing...and the world came. Over the last 30 years, all forms of manufacturing and service systems have embraced the concepts of Lean Thinking and proved its superiority to traditional manufacturing and service systems design. This is a book which clearly explains the fundamental concepts of Lean Manufacturing, It also defines and characterizes a new breed of Manufacturing Engineer which we call the Lean Engineer. The Lean Engineer has roots in traditional Industrial engineering, but is also well trained in six-sigma methodologies and understands lean to green factory design principles. However, Lean Engineering transcends and redefines the classic Industrial engineer. Principles of Lean systems design, U-shaped Lean manufacturing cells, Linked Cell Manufacturing System design and Mixed Model final assembly lines are unique Lean Engineering strategies. This book attempts to define the Fundamentals of Lean Manufacturing and Introduces Lean System Design principles. - Demonstrates the conversion of traditional manufacturing lines into U-shaped Lean Cells - Contrasts push versus pull manufacturing strategies - Covers Balancing, Leveling and System synchronization - Describes and gives examples of Single and dual card Kanban Systems - Discusses the Role of Maintenance, Reliability and Quality Assurance in Lean Manufacturing - Includes over 150 Homework questions or problems and two comprehensive case studies This book serves as a college textbook for any Introductory Lean Manufacturing course for Industrial Engineering, Mechanical Engineering, Engineering Technology or Business Course. It is also an excellent reference book for Industrial Manufacturing Engineers who wish to implement Lean Concepts and Lean Thinking.

Exciton Dynamics in Lead Halide Perovskite Nanocrystals Lean Enterprise Institute

How can you design technology that becomes a part of a user's life and not a distraction from it? This practical book explores the concept of calm technology, a method for smoothly capturing a user's attention only when necessary, while calmly remaining in the background most of the time. You'll learn how to design products that work well, launch well, are easy to support, easy to use, and remain unobtrusive. Author Amber Case presents ideas first introduced by researchers at

Xerox PARC in 1995, and explains how they apply to our current technology landscape, especially the Internet of Things. This book is ideal for UX and product designers, managers, creative directors, and developers. You'll learn: The importance and challenge of designing technology that respects our attention Principles of calm design—peripheral attention, context, and ambient awareness Calm communication patterns—improving attention through a variety of senses Exercises for improving existing products through calm technology Principles and patterns of calm technology for companies and teams The origins of calm technology at Xerox PARC *Fundamentals of Rocket Propulsion* Springer Science & Business Media The book follows a unified approach to present the basic principles of rocket propulsion in concise and lucid form. This textbook comprises of ten chapters ranging from brief introduction and elements of rocket propulsion, aerothermodynamics to solid, liquid and hybrid propellant rocket engines with chapter on electrical propulsion. Worked out examples are also provided at the end of chapter for understanding uncertainty analysis. This book is designed and developed as an introductory text on the fundamental aspects of rocket propulsion for both undergraduate and graduate students. It is also aimed towards practicing engineers in the field of space engineering. This comprehensive guide also provides adequate problems for audience to understand intricate aspects of rocket propulsion enabling them to design and develop rocket engines for peaceful purposes.

Rock Blasting and Explosives Engineering John Wiley & Sons

Less than a decade ago, lead halide perovskite semiconductors caused a sensation: Solar cells exhibiting astonishingly high levels of efficiency. Recently, it became possible to synthesize nanocrystals of this material as well. Interestingly; simply by controlling the size and shape of these crystals, new aspects of this material literally came to light. These nanocrystals have proven to be interesting candidates for light emission. In this thesis, the recombination, dephasing and diffusion of excitons in perovskite nanocrystals is investigated using time-resolved spectroscopy. All these dynamic processes have a direct impact on the light-emitting device performance from a technology point of view. However, most importantly, the insights gained from the measurements allowed the author to modify the nanocrystals such that they emitted with an unprecedented quantum yield in the blue spectral range, resulting in the successful implementation of this material as the active layer in an LED. This represents a technological breakthrough, because efficient perovskite light emitters in this wavelength range did not exist before.

Principles of Planetary Climate Springer Science & Business Media

This book showcases the power of economic principles to explain and predict issues and current events in the food, agricultural, agribusiness, international trade, natural resources and other sectors. The result is an agricultural economics textbook that provides students and instructors with a clear, up-to-date, and straightforward approach to learning how a market-based economy functions, and how to use simple economic principles for improved decision making. While the primary focus of the book is on microeconomic aspects, agricultural economics has expanded over recent decades to include issues of macroeconomics, international trade, agribusiness, environmental economics, natural resources, and international development. Hence, these topics are also provided with significant coverage.