

**Fundamentals of
Shaped Charges**

W.P. Walters / L.A. Zukas

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Fundamentals of *Shaped Charges*

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Basil Timothy Fedoroff



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Fundamentals of Shaped Charges William P. Walters, Jonas A. Zukas, 1989 An introduction to the art and science of developing shaped charges Presents the history of shaped charges the principles governing their design and a variety of example applications Includes discussion of Gurney and Taylor methods jet formation the visco plastic model jet penetration fabrication computational aspects and how to design shaped charges for different applications Annotation copyrighted by Book News Inc Portland OR

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Ballistics 18th International Symposium William G. Reinecke, 1999-11-10 **Fundamentals of Shaped Charges** Emerson M. Pugh, Department of the Army, 1958 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 *Ballistics 2011* Ernest Baker,Douglas Templeton,2011-09 Includes papers that were first presented at a September 2011 conference organized by the National Defense Industrial Association and the International Ballistics Society This title includes a CD ROM that displays figures and illustrations in articles in full color along with a title screen and main menu screen **An Optimization Study of an Explosive-driven Pile** Jacob Savitt,1966 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

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 *Introduction to Hydrocodes* Jonas Zukas,2004-01-20 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 Technical Abstract Bulletin Defense Documentation Center (U.S.),1964

Ballistics Donald E. Carlucci,Sidney S. Jacobson,2018-03-15 With new chapters homework problems case studies figures and examples *Ballistics Theory and Design of Guns and Ammunition* Third Edition encourages superior design and innovative applications in the field of ballistics It examines the analytical and computational tools for predicting a weapon s behavior in terms of pressure stress and velocity demonstrating their applications in ammunition and weapons design New coverage in the Third Edition includes gas powered guns and naval ordinance With its thorough coverage of interior exterior and

terminal ballistics this new edition continues to be the standard resource for those studying the technology of guns and ammunition

Explosively Driven Pulsed Power Andreas Neuber, 2005-07-22 While the basic operating principles of Helical Magnetic Flux Compression Generators are easy to understand the details of their construction and performance limits have been described only in government reports many of them classified Conferences in the field of flux compression are also dominated by contributions from government US and foreign laboratories And the government sponsored research has usually been concerned with very large generators with explosive charges that require elaborate facilities and safety arrangements This book emphasizes research into small generators less than 500 grams of high explosives and explains in detail the physical fundamentals construction details and parameter variation effects related to them

Integrated Design for Space Transportation System B.N. Suresh, K. Sivan, 2015-11-20 The book addresses the overall integrated design aspects of a space transportation system involving several disciplines like propulsion vehicle structures aerodynamics flight mechanics navigation guidance and control systems stage auxiliary systems thermal systems etc and discusses the system approach for design trade off analysis system life cycle considerations important aspects in mission management the risk assessment etc There are several books authored to describe the design aspects of various areas viz propulsion aerodynamics structures control etc but there is no book which presents space transportation system STS design in an integrated manner This book attempts to fill this gap by addressing systems approach for STS design highlighting the integrated design aspects interactions between various subsystems and interdependencies The main focus is towards the complex integrated design to arrive at an optimum robust and cost effective space transportation system The orbital mechanics of satellites including different coordinate frames orbital perturbations and orbital transfers are explained For launching the satellites to meet specific mission requirements viz payload orbit design considerations giving step by step procedure are briefed The selection methodology for launch vehicle configuration its optimum staging and the factors which influence the vehicle performance are summarized The influence of external internal and dynamic operating environments experienced by the vehicle subsystems and the remedial measures needed are highlighted The mission design strategies and their influence on the vehicle design process are elaborated The various critical aspects of STS subsystems like flight mechanics propulsion structures and materials thermal systems stage auxiliary systems navigation guidance and control and the interdependencies and interactions between them are covered The design guidelines complexity of the flight environment and the reentry dynamics for the reentry missions are included The book is not targeted as a design tool for any particular discipline or subsystem Some of the design related equations or expressions are not attempted to derive from the first principle as this is beyond the scope of this book However the important analytical expressions graphs and sketches which are essential to provide in depth understanding for the design process as well as to understand the interactions between different subsystems are appropriately included

Damaging Effects of Weapons and Ammunition Igor A.

Balagansky,2022-04-13 Comprehensive coverage of weapon damage effects on a variety of objects *Damaging Effects of Weapons and Ammunition* delivers a thorough exploration of a range of issues related to the effects of ammunition and weapons The book includes coverage of the basic concepts of the theory of efficiency and the physical foundations of the functional and damaging effects of fragments shaped charges high explosive and penetrating weapons The author discusses the calculation formulas used to evaluation the parameters of damage fields and their interaction with various objects Additionally the book expands on the damage criteria of weapons the characteristics of the vulnerability of objects with respect to a variety of damaging factors dependencies for assessing safe distances and the resistance of various structures to the effects of explosion and impact *Damaging Effects of Weapons and Ammunition* also offers Detailed calculation methods indicating areas of application and the necessary units of used quantities Extensive examples of classic designs of ammunition from around the world Discussions of the characterization of various types of ammunition including high explosive fragment penetrative and shaped charges A chapter on the numerical simulation of high speed processes Perfect for technical specialists working in the fields of explosion safety and explosives *Damaging Effects of Weapons and Ammunition* also belongs in the libraries of researchers and students studying explosion phenomena explosive technologies explosion safety and materials science *Advances in Ceramic Armor VII, Volume 32, Issue 5* Jeffrey J. Swab,2011-11-11

This book is a collection of papers from The American Ceramic Society s 35th International Conference on Advanced Ceramics and Composites held in Daytona Beach Florida January 23 28 2011 This issue includes papers presented in the Armor Ceramics Symposium on topics such as Manufacturing High Rate Real Time Characterization Microstructural Design Nondestructive Characterization and Phenomenology and Mechanics of Ceramics Subjected to Ballistic Impact

BALLISTICS 2016 Clive Woodley,Ian Cullis,2016-05-22 Presents high level research on various caliber guns cannon mortars drones warheads shells bullets drills and other launchers and penetrants as well as their impact effects on natural and designed materials including large scale targets and body armors Provides new modeling and test data on projectile design and guidance propellants charges and explosives for military aerospace and civil engineering applications Over 250 presentations in two printed volumes plus searchable CD This book makes available original ballistics technology from around the world on a wide variety of weapons and their effects including the design and trajectory stability control of dozens of projectiles ranging from shells to missiles The book s authors discuss the efficacy and development of propellants munitions and igniters and offer new approaches for modeling and testing Also investigated in Volume 1 are shielding and protection strategies for individual persons and other targets Volume 2 offers research on the mechanical behavior of multiple types of explosives as well as impact and penetration data from projectile effects on surfaces ranging from natural phenomena such as water and soils to metallic plating and material engineered armors Papers in these volumes were presented at a conference organized by the National Defense Industrial Association NDIA with the International Ballistics

Society *High Explosives, Propellants, Pyrotechnics* Ernst-Christian Koch, 2021-01-18 This dictionary contains 739 entries with about 1400 references to the primary literature Details on the composition performance sensitivity and other pertinent properties of Energetic Materials such as High Explosives Propellants Pyrotechnics as well as important ingredients such as Oxidizers Fuels Binders and Modifiers are given and presented partly in over 180 tables with more than 240 structural formulas In detail the dictionary gives elaborate descriptions of 460 Chemical Substances 170 Pyrotechnic Compositions 360 High Explosive and Propellant Formulations In addition the basic physical and thermochemical properties of 435 pure substances elements compounds typically occurring as ingredients or reaction products are given too 150 Figures schemes and diagrams explain Applications Test methods Scientific facilities and finally Individuals closely tied with the development and investigation of Energetic Materials The book is intended for readers with a technical or scientific background active in governmental agencies research institutes trade and industry concerned with the procurement development manufacture investigation and use of Energetic Materials such as High Explosives Propellants Pyrotechnics Fireworks and Ammunition The book serves both as a daily reference for the experienced as well as an introduction for the newcomer to the field

Computational Solid Mechanics For Oil Well Perforator Design Wen Ho Lee, 2018-06-05 This book presents the computational methods for solving the solid mechanic problems in the oil well perforator design Both Lagrangian and Eulerian methods are used to solve the pertinent stress strain equations and the shock wave running through the materials Seven good performance oil well perforators and two conical shaped charges for defeating the reactive armor are included in this book as references The computer programs written in Fortran for the calculation of high explosive burn time and burn distance shear modulus and yield strength for many materials as well as MATLAB plotting programs for many perforators are available online as supplementary materials for the book

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