

Fundamentals Of Shaped Charges

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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

the effect of various parameters was studied to design a charge that would do the work of the u s army m2a3 15lb shaped charges with as large a saving in weight as possible during february and march 1957 shaped charges of special design with a 4 in diameter and weighing from 2 1 2 to 3 1 2 lb were fired into frozen ground at fort churchill manitoba data were obtained on the effect of standoff charge weight and cone material thickness and angle results of the testing showed that a hole 5 ft deep and 1 7 in in diameter in frozen ground can be obtained with a shaped charge weighing 2 8 lb aluminum cones are superior to copper or steel cones machined aluminum cones give greater penetration than rotary extruded aluminum cones a 75 degree cone angle gave the best results a thickness of 0 2 in for the cone meets the minimum weight requirements additional studies to get greater penetration were recommended on weight and shape of charge fabrication of copper and steel cones and the validity of the cube root scaling for shaped charges author

this article is the second of a three part series on hollow charges this part depicts the history of shaped charges from their early beginning through the post world war ii era

devoted to the subject of shape charge design using numerical methods this book offers the defense and commercial industries unique material not contained in any other single volume the coverage of the lagrangian and eulerian methods as well as the equation of state provides first hand help to engineers working on shape charge problems the book includes detailed descriptions of oil well perforation not available from any other sources and coupled with the material flow physics discussed in chapters 2 and 3 and appendix b readers can design the fuel rod configurations for a nuclear reactor core the equations of state and the constitutive models in chapter 8 are among the best material models currently available

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

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

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 clad aluminum hybrid composites explosive clads with interlayers

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

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 evaluate 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

the papers collected together in this volume constitute a review of recent research on the response of condensed matter to dynamic high pressures and temperatures included are sections on equations of state phase transitions material properties explosive behavior measurement techniques and optical and laser studies recent developments in this area such as studies of impact and penetration phenomenology the development of materials especially ceramics and molecular dynamics and monte carlo simulations are also covered these latest advances in addition to the many other results and topics covered by the authors serve to make this volume the most authoritative source for the shock wave physics community

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