

# Fundamentals Of Shaped Charges

Fundamentals of Shaped ChargesThe Shaped Charge Concept. Part 3.

Applications of Shaped ChargesThe Shaped Charge Concept. Part 2. The History

of Shaped ChargesPenetration of Shaped Charges Into Frozen GroundThe

Shaped Charge ConceptShock Waves in the Study of Shaped

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Charges to Explosive Filled OrdnanceComputer Simulation Of Shaped Charge

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DisposalPerformance Evaluation of Shaped ChargesPenetration of Shaped

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Application of Shaped Charges. William P. Walters William P. Walters William P.

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Sirdharlal Sheth Robert Benert Amedeo Henry Galvani

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  
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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

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 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 report provides an overview of the history of shaped charge development by consolidating earlier write ups from several investigators 1 5 the intent is to educate a new generation of researchers who are not familiar with this material most of these documents are now either out of print or hard to find since most of these publications originated in the 1980s to early 1990s a few additions were made based on the discovery of new historical material the report begins with the early work prior to the invention of the detonator and continues to the present this report chronicles the works of the early researchers notably munroe von foerster newman mohaupt thomanek and others

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 contains a presentation given at the u s army research laboratory arl as a 3 hr lecture introducing and presenting the basic principles of the shaped charge concept the lectures were given at arl aberdeen proving ground md on 8 january and 16 january 2007 for arl personnel

this article is a brief introduction to the concept of hollow charges and shaped charges it is intended to be a tutorial to acquaint the novice with the basic

principles of shaped charges a concept which is not well understood by the layman this introductory report will then pave the way for following articles which detail the history and applications of shaped charges

a short account is given of shaped charge development starting in norway in the 18th century noting the first patent applications and then concentrating upon uk developments during world war ii and the following years

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