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

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

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 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

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 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

this is the first ever book on smoothed particle hydrodynamics sph and its variations covering the theoretical background

numericaltechniques code implementation issues and many novel and interestingapplications

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