

ISSN 1000-1093
CODEN BIXUD9



兵工学报

BINGGONG XUEBAO

ACTA ARMAMENTARII

第33卷

Vol.33

第5期

No.5

5

2012

ISSN 1000-1093



9 771000 109062

万方数据

中国兵工学会

ACTA ARMAMENTARII

(Monthly)

Vol. 33 No. 5 May 2012

Series No. 182

CONTENTS

- Two Phase Flow Numerical Simulation of Interior Ballistics of the Series Chamber Gun LI Hai-qing, ZHANG Xiao-bing, WANG Yan (513)
- Experimental Study and Numerical Simulation on Property of Pulsed Plasma Jet-Liquid Interaction ZHANG Qi, YU Yong-gang, LIU Dong-yao, et al (518)
- Research on the Angle Tracking Pointing Performance of 3D Dynamic Acoustic Array Based on Dual Acoustic Sources LIU Ya-lei, GU Xiao-hui (526)
- Research on Preparation of Microfoam Oblate Spherical Propellants by Supercritical CO₂ CHEN Xi-ru, YING San-jiu, XIAO Zheng-gang (534)
- Experimental Research for Cavity and Ballistics of a Rotating Bullet Entrainig Water Levelly GU Jian-nong, ZHANG Zhi-hong, WANG Chong, et al (540)
- Exterior Ballistic Discrimination Method of a Mortar Bomb Based on Turbine Alternator Output GAO Min, JING Ya-xing, LIU Qiu-sheng, et al (545)
- Study on Dimension Effect of Accelerating Ability and JWL Equation of State for Aluminized Explosive JI Dong-kui, GAO Xiu-zhu, XIAO Chuan, et al (552)
- Experimental Study and Initial Velocity Calculation of Particles Dispersed by Center Explosive CHEN Ya-hong, BAI Chun-hua, LIU Yi, et al (556)
- Synthesis and Property of Energetic Dinitromethane Salts and Their Thermal Decomposition Reaction Kinetics CAO Dan, SONG Jin-hong, HUANG Hai-feng, et al (560)
- Research on Numerical Simulation Method of Near-field Flows in Air Blast XU Chun-guang, BAI Xiao-zheng, LIU Yu, et al (566)
- Measurement and Analysis of Shock Wave Overpressure of Thermal Explosion of Charge with Shell WANG Chang-li, ZHOU Gang, CAI Zong-yi, et al (574)
- Novel Design of Wide-band Isolation Based on Capacitive Clapboard HUANG Jing-jian, YANG Yong, TAN Yuan, et al (579)
- Research on Electrostatic Field of Helicopter HAO Xiao-hui, YU Jian-fei, CUI Zhan-zhong (583)
- Comprehensive Load Simulation System of Servo Mechanism YAN Hao, LI Chang-chun, CHEN Ce (588)
- Numerical Simulation of Three-dimensional Flow Field of Continuous Rotating Detonation PAN Zhen-hua, FAN Bao-chun, ZHANG Xu-dong, et al (594)
- An Inverse Problem of a Nonholonomic Non-conservative Mechanical System in Phase Space ZHANG Yi (600)
- Direction-of-Arrival Estimation Algorithm for Coherent Sources Based on a Vertical Vector Sensor Array BIAN Hong-yu, WANG Jun-lin (605)
- Damage Characteristics of Box-like Beam as a Bulk Subjected to Underwater Explosion in Near-field LI Hai-tao, ZHANG Yong-kun, ZHANG Zhen-hai (611)
- Contact Pressure Distribution During Chemical Mechanical Polishing with Bionic Cutting Polishing Pad LU Yu-shan, ZHANG Liao-yuan, WANG Ju, et al (617)
- Research Notes**
- Investigation on the Blast Wave Structures of a High-speed Projectile Flying Through Different Muzzle Brakes ZHANG Huan-hao, CHEN Zhi-hua, JIANG Xiao-hai, et al (623)
- Research on the Effect of Wave to Vertical Launch Missile Water Trajectory WANG Ya-dong, YUAN Xu-long, ZHANG Yu-wen, et al (630)
- Study on Orientation Angle of Two Acoustic Homing Torpedoes Relative to Target with Parallel Salvo Launched by Submarine XIA Zhi-jun, ZHANG Xin-hua, XU Lin-zhou (636)

目次

- 串联多药室火炮内弹道两相流数值模拟 李海庆, 张小兵, 王艳 (513)
脉冲等离子射流与液体工质相互作用特性实验研究及数值模拟 张琦, 余永刚, 刘东尧, 等 (518)
三维运动声阵列对双点声源角跟踪指向性能研究 刘亚雷, 顾晓辉 (526)
超临界 CO₂制备微孔球扁药的研究 陈西如, 应三九, 肖正刚 (534)
旋转弹头水平入水空泡及弹道的实验研究 顾建农, 张志宏, 王冲, 等 (540)
基于涡轮发电机输出频率的迫弹外弹道辨识方法研究 高敏, 敬亚兴, 刘秋生, 等 (545)
含铝炸药作功能力和 JWL 状态方程尺寸效应研究 计冬奎, 高修柱, 肖川, 等 (552)
中心药抛撒金属颗粒群的初速计算与实验研究 陈亚红, 白春华, 刘意, 等 (556)
二硝基甲烷含能离子盐的合成与性能及其热力学分析 曹丹, 宋靳红, 黄海丰, 等 (560)
爆炸近区流场的数值模拟方法研究 徐春光, 白晓征, 刘瑜, 等 (566)
带壳装药热爆炸冲击波超压测量及分析 王长利, 周刚, 蔡宗义, 等 (574)
基于电容性膜板加载的新型雷达宽带隔离设计 黄敬健, 杨勇, 谭渊, 等 (579)
直升机静电场研究 郝晓辉, 虞健飞, 崔占忠 (583)
伺服机构综合负载模拟试验系统 延皓, 李长春, 陈策 (588)
连续旋转爆轰三维流场的数值模拟 潘振华, 范宝春, 张旭东, 等 (594)
相空间中非完整非保守力学系统的一个动力学逆问题 张毅 (600)
基于垂直矢量阵的相干信号方位估计算法 卞红雨, 王珺琳 (605)
近场水下爆炸作用下箱形梁整体损伤特性研究 李海涛, 张永坤, 张振海 (611)
抛光垫提高化学机械抛光接触压强分布均匀性研究 吕玉山, 张辽远, 王军, 等 (617)

研究简报

- 高速弹丸穿越不同制退器时的膛口流场波系结构研究 张焕好, 陈志华, 姜孝海, 等 (623)
波浪对导弹垂直发射水弹道影响研究 王亚东, 袁绪龙, 张宇文, 等 (630)
潜艇平行航向齐射两枚鱼雷时相对目标方位开角研究 夏志军, 章新华, 许林周 (636)