

目次 CONTENTS

专题——含能材料及其弹药系统的热安全性问题

Special Topic—Thermal Safety of Energetic Materials and Ammunition Systems

1 含能材料热安全性研究进展

Thermal Safety of Energetic Materials

叶青, 余永刚

YE Qing, YU Yong-gang

11 不同升温速率下模块装药的烤燃特性分析

Analysis of Cook-Off Characteristics of Modular Charges at Different Heating Rates

刘静, 赵非玉

LIU Jing, ZHAO Fei-yu

17 HMX 与低熔点含能材料混合物的热安定性研究

Thermal Stability of Mixtures of HMX and Low Melting Point Energetic Materials

黄可奇, 韦争何, 夏良洪, 龙茂豪, 王彦娜, 李志敏, 张同来

HUANG Ke-qi, WEI Zheng-he, XIA Liang-hong, LONG Mao-hao, WANG Yan-na, LI Zhi-min,

ZHANG Tong-lai

26 圆孔装药固体火箭发动机的慢速烤燃特性研究

Slow Cook-Off Characteristics of Solid Rocket Motor with Round-hole Charge

叶青, 余永刚

YE Qing, YU Yong-gang

32 2 种低射速下火炮膛内模块装药烤燃特性的对比与分析

Comparison and Analysis of Cook-Off Characteristics of Modular Charge in Gun Chamber at Two Low Firing Rates

钱环宇, 余永刚

QIAN Huan-yu, YU yong-gang

39 一种带中心孔的密实随行装药内弹道数值计算及分析

Numerical Calculation and Analysis on Interior Ballistics of Compacted Traveling Charge with a Central Hole

曹永杰, 豆松松, 赵娜, 胡杰, 李志飞, 章旺

CAO Yong-jie, DOU Song-song, ZHAO Na, HU Jie, LI Zhi-fei, ZHANG Wang

46 AP/HTPB 底排推进剂降压熄火试样的热分解研究

Thermal Decomposition of Extinguished AP/HTPB Base Bleed Propellant under Condition of Transient Depressurization

沈慧, 许冲, 张沛心, 刘永强, 许鹏

SHEN Hui, XU Chong, ZHANG Pei-xin, LIU Yong-qiang, XU Peng

52 RDX 粒度对某高能硝胺发射药燃烧性能的影响

RDX Particle Size on Combustion Performance of a High-Energy Nitramine Propellant

豆松松, 曹永杰, 张明安, 聂奎, 张薇薇, 章旺

DOU Song-song, CAO Yong-jie, ZAHNG Ming-an, NIE Kui, ZHANG Wei-wei, ZHANG Wang

航空航天装备 Aviation and Aerospace Equipment

58 可散式弹链拉断力变化规律研究

Change Law of Tensile Force of the Dispersible Ammunition Belt

封先河, 杨万均, 罗丹, 陈星昊, 杨昊雨

FENG Xian-he, YANG Wan-jun, LUO Dan, CHEN Xing-hao, YANG Hao-yu

64 组合类产品筛选试验通用工装设计

Design of General Tool for Screening Test of Combined Products

董智远, 李飞飞, 李建伍
DONG Zhi-yuan, LI Fei-fei, LI Jian-wu

72 玄武岩纤维隔热复合材料导热系数调控

Control of Thermal Conductivity of Basalt Fiber Thermal Insulation Composite Material

代文惠, 李昊瑜, 彭星, 黄安畏, 李忠盛, 丛大龙,
易同斌, 吴永鹏, 孙彩云, 董玲抒, 唐晶晶, 高诗情

DAI Wen-hui, LI Hao-yu, PENG Xing, HUANG An-wei, LI Zhong-sheng, CONG Da-long,
YI Tong-bin, WU Yong-peng, SUN Cai-yun, DONG Ling-shu, TANG Jing-jing, GAO Shi-qing

海洋工程装备 Marine Engineering Equipment

79 一种 Cu-MOF 缓蚀剂的复配研究

Compounding of Cu-MOF Corrosion Inhibitor

张星, 刘巍, 李侠清, 张全胜, 冯雷雷, 官庆卿, 常峰
ZHANG Xing, LIU Wei, LI Xia-qing, ZHANG Quan-sheng,
FENG Lei-lei, GUAN Qing-qing, CHANG Feng

87 冷喷涂 Ni/Al₂O₃ 复合涂层在海洋大气环境下的腐蚀行为研究

Corrosion Behavior of Cold Sprayed Ni/Al₂O₃ Coating in Marine Atmosphere Environment

丰雷, 丁星星, 宋凯强, 王旋, 白懿心, 彭冬, 丛大龙
FENG Lei, DING Xing-xing, SONG Kai-qiang, WANG Xuan,
BAI Yi-xin, PENG Dong, CONG Da-long

重大工程装备 Key Projects Equipment

94 一种非平稳随机振动试验控制系统设计

A Control System Design of Non-Stationary Random Vibration Experiment

邓婷, 严侠, 王宇飞

DENG Ting, YAN Xia, WANG Yu-fei

101 基于复合应力加速寿命试验的高速列车电子产品可靠度计算方法研究

Reliability Calculation Method of High Speed Train Electronic Products Based on Composite Stress Accelerated Life Test

周永刚, 王鹏

ZHOU Yong-gang, WANG Peng

106 CRH2 及 CRH380A 系列动车组速度传感器可靠性评估研究

Reliability Evaluation of Speed Sensor for CRH2 and CRH380A Series EMU

梁爽, 贾步超, 孙卫平, 吴超云

LIANG Shuang, JIA Bu-chao, SUN Wei-ping, WU Chao-yun

112 注空气驱油过程中 N80 钢的腐蚀规律研究

Corrosion Rule of N80 Carbon Steel during Air Injection Enhanced Oil Recovery

连宇博, 翁华涛, 刘贵宾, 魏亚军, 黄晨, 蒋伟

LIAN Yu-bo, WENG Hua-tao, LIU Gui-bin, WEI Ya-jun, HUANG Chen, JIANG Wei

118 低温环境对 3 种结构钢力学性能的影响研究

Influence of Low Temperature Environment on Mechanical Performance of Three Structural Steels

苏艳, 苏虹, 胡秉飞, 陈金燕, 钟勇

SU Yan, SU Hong, HU Bing-fei, CHEN Jing-yan, ZHONG Yong

广告索引

封底

东莞市众志检测仪器有限公司

封二

重庆银河试验仪器有限公司

封三

广东莱伯通试验设备有限公司

封三前

1. 重庆哈丁环境试验技术股份有限公司

2. 航空工业综合技术研究所

3. 中国兵器工业第五九研究所

4. 国防科技工业自然环境试验研究中心

5. 《装备环境工程》杂志第四届理事会

6. 《表面技术》期刊