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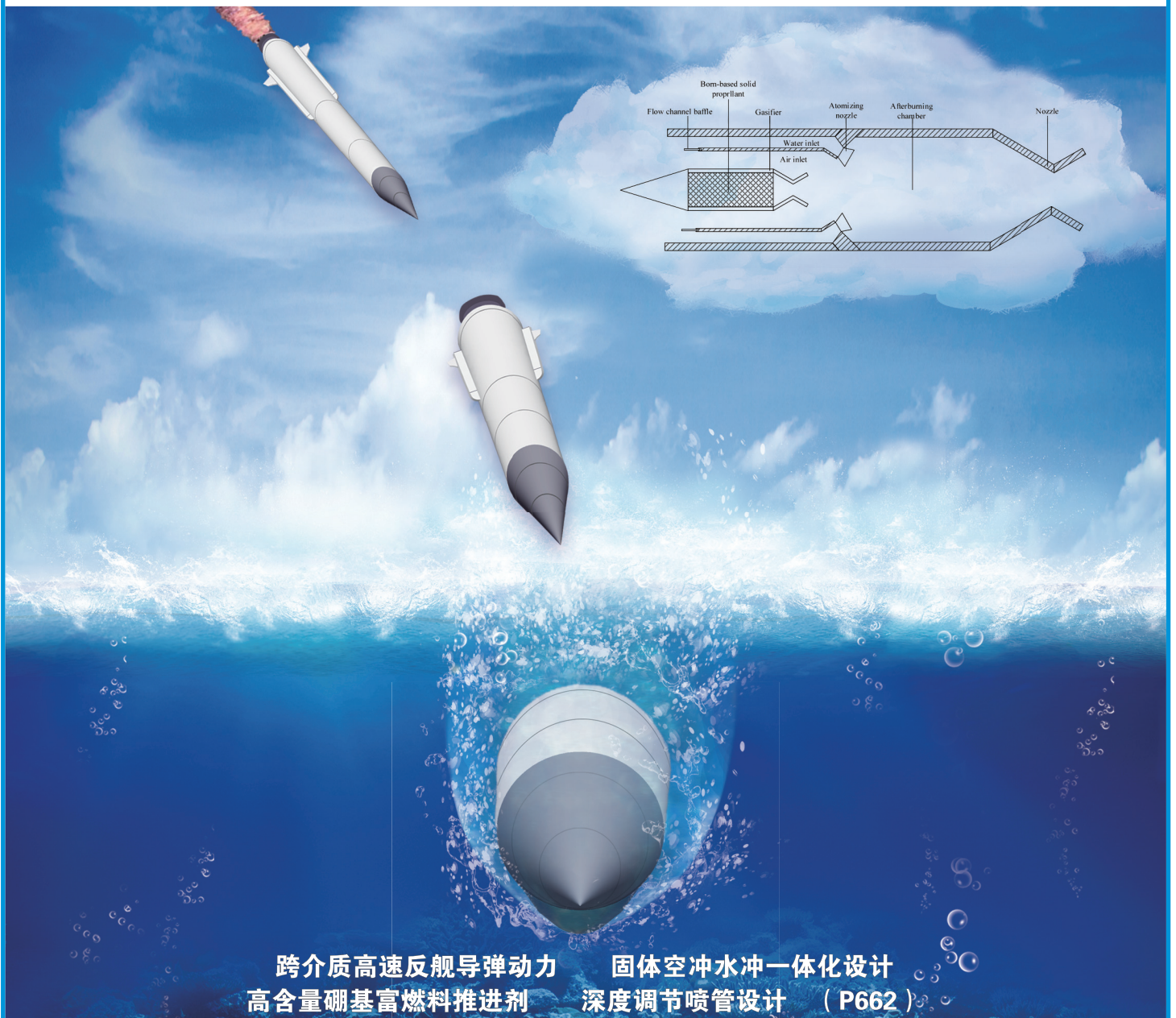
GUTI HUOJIAN JISHU

# 固体火箭技术

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跨介质高速反舰导弹动力 固体空冲水冲一体化设计  
高含量硼基富燃料推进剂 深度调节喷管设计 (P662)

# 固 体 火 箭 技 术

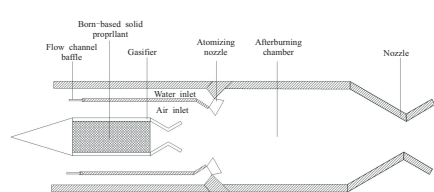
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## 目 次

新闻热点	
空天动力复合材料技术未来如何发展? .....	张承双,张光喜,张启伟,徐雨(653)
观点述评	
对大长径比战术导弹在飞行过程发生耦合共振现象的机理讨论 .....	郜冶(655)
发动机工程	
硼基富燃料推进剂跨介质冲压发动机工作特性方案研究 .....	李鹏飞,黄利亚,夏智勋,孟梁,肖帆(662)
药柱完整性	
IPDI 型 HTPB 推进剂/衬层/玻璃钢界面粘接增强设计 .....	温彦威,吴战武,祁玮,左海丽,楼阳,钱建国,翟杰明(668)
Prony 级数的不同阶数对 HTPB 推进剂力学响应仿真影响 .....	贾乐凡,史宏斌,沙宝林,许杨(675)
考虑分子链密度的固体火箭发动机粘接界面强度评价方法 .....	陈尔豪,雷鸣,文立华,校金友,侯晓(680)
卧式贮存定期翻转条件下固体发动机药柱应力及损伤分析 .....	张砚坤,强洪夫,王学仁,耿挺京(689)
推进剂 燃料 燃烧	
有机氟化物对铝/镁-HTPB 富燃料推进剂燃烧性能和凝聚相燃烧产物的影响 .....	施晗,李建民,唐伟强,任佳奇,杨荣杰(696)
微推进器电控固体推进剂常压点火燃烧效率影响因素研究 .....	黄印,张小平,庞爱民,汪越,李洪旭,宋柳芳(703)
多孔 U-10Zr 金属燃料热学及力学性能的有限元计算 .....	赵瑞瑞,贾寅峰,刘卓扬,齐永良,张旭东,邓俊楷,李国庆(714)
HTPB/Ni/ $\mu$ Al 复合粒子的制备及其热氧化性能 .....	包淑霞,李廷润,郭春雨,赵洋洋,张慧娟,吴瑞凤(721)
复合固体推进剂力学性能调控方法研究进展 .....	王道林,钱勛,孙晓飞,安百强(729)
装药工艺	
基于气流粉碎法的超细高氯酸铵粉碎工艺参数优化 .....	卢翰,白鑫林,徐志刚,邱磊,袁潇(741)
结构材料 结构力学	
预聚时间对 CE/EP 树脂体系固化行为的影响 .....	惠雪梅,侯晓,张承双,魏花丽,廖英强,张光喜(749)
水热共沉积-碳热还原反应法制备的 C/C-CuNi 复合材料微观结构及性能 .....	张晨鸽,欧阳海波,李翠艳,董继杰(756)
防热材料 绝热材料	
双脉冲发动机 I 脉冲工作过程中 EPDM 隔层烧蚀特性 .....	卞云龙,李映坤,李海阳,申志彬,吴国夫(764)
PI 纤维增强 EPDM 绝热层力学性能波动性拉伸损伤机制研究 .....	刘琮佩璘,王明超,张箭,徐胜良,黄志萍(772)
测试 试验 安全性	
固体火箭发动机界面脱粘检测的深度学习算法 .....	邓亮亮,屈文忠,白小平,刘宾(779)
基于气体冲击的导弹弹射筒内动态压力模拟技术研究 .....	兰宝刚,潘武贤,刘拓,霍菲(788)
高温加速老化 HTPB 推进剂的超声波参数变化规律试验研究 .....	李剑,黄留春,艾德文,赵亮,吴超,李博俊(794)
运载火箭 导弹技术	
水下弹射过程中发射筒布置形式对相邻设备载荷状态的影响 .....	卢丙举,卫超,毕凤阳,赵世平,李超艳,毕世华(801)
工程快报	
针刺 C/C 复合材料结构-工艺-性能一体化软件平台 .....	成博,弓站朋,邓俊楷,白侠,李艳,张承双(807)

## 封面文章导读



### 硼基富燃料推进剂跨介质冲压发动机工作特性方案研究

李鹏飞,黄利亚,夏智勋,孟梁,肖帆

空水跨介质动力概念已有百年历史,近年研究机构针对无人机慢速巡航动力提出几种组合动力方案,随着空中超高速/水下超高速冲压动力技术的发展应用,国防科技大学早在 5 年前对跨介质冲压动力进行了理论计算和初步设计,本期发表的论文是该团队在此基础上针对高速巡航反舰导弹提出的空中固冲/水下水冲的一体化动力方案,作者提出以硼基富燃料跨介质冲压发动机为动力装置的跨介质反舰导弹具有极强的突防和打击能力,但也有专家提出这种硼基跨介质发动机的发展仍面临高含量硼基药柱制备、硼水燃烧组织以及发动机喷管变喉径变口径的结构设计等困难。

## CONTENTS

### NEWS & HIGHLIGHTS

How to develop composite materials for aerospace propulsion in the future?  
..... ZHANG Chengshuang, ZHANG Guangxi, ZHANG Qiwei, XU Yu (653)

### VIEWS & COMMENTS

Discussion on coupling resonance mechanism in flight of tactical missiles with large aspect ratio ..... GAO Ye (655)

### SOLID ROCKET MOTOR ENGINEERING

Study on working characteristics of boron-based fuel rich propellant trans-media ramjet  
..... LI Pengfei, HUANG Liya, XIA Zhixun, MENG Liang, XIAO Fan (662)

### STRUCTURAL INTEGRITY

Enhancement design for bonded interface of IPDI-HTPB propellant/liner/FRP  
..... WEN Yanwei, WU Zhanwu, QI Wei, ZUO Haili, LOU Yang, QIAN Jianguo, ZHAI Jieming (668)

Influence of Prony series with different orders on the mechanical response simulation of HTPB propellant  
..... JIA Lefan, SHI Hongbin, SHA Baolin, XU Yang (675)

An evaluation method for bonding interface strength of SRM considering the molecular chain density  
..... CHEN Erhao, LEI Ming, WEN Lihua, XIAO Jinyou, HOU Xiao (680)

Analysis on stress and damage of solid motor grain under the conditions of horizontal storage and periodic turnover  
..... ZHANG Yanzhen, QIANG Hongfu, WANG Xueren, GENG Tingjing (689)

### PROPELLANT, FUEL AND COMBUSTION

Effect of organic fluoride on combustion performance and condensed phase combustion products of Al/Mg-HTPB fuel-rich propellant  
..... SHI Han, LI Jianmin, TANG Weiqiang, REN Jiaqi, YANG Rongjie (696)

Influence factors of ignition combustion efficiency of electrically controlled solid propellant for micro-thruster at atmospheric pressure  
..... HUANG Yin, ZHANG Xiaoping, PANG Aimin, WANG Yue, LI Hongxu, SONG Liufang (703)

Finite element calculations of thermal-mechanical properties of porous U-10Zr metal fuel  
..... ZHAO Ruirui, JIA Yinfeng, LIU Zhuoyang, QI Yongliang, ZHANG Xudong, DENG Junkai, LI Guoqing (714)

Preparation and thermal oxidation properties of HTPB/Ni/ $\mu$ Al  
..... BAO Shuxia, LI Tingrun, GUO Chunyu, ZHAO Yangyang, ZHANG Huijuan, WU Ruifeng (721)

Research progress on regulation method in mechanical properties of composite solid propellant  
..... WANG Daolin, QIAN Xu, SUN Xiaofei, AN Baiqiang (729)

### PROPELLANT LOADING PROCESSES AND DEVICES

Optimization of process parameters for ultrafine AP particles based on jet milling method  
..... LU Han, BAI Xinlin, XU Zhigang, QIU Lei, YUAN Xiao (741)

### STRUCTURAL MATERIALS AND MECHANICS

Effect of pre-polymerization time on curing behavior of modified cyanate ester/epoxy resin system  
..... HUI Xuemei, HOU Xiao, ZHANG Chengshuang, WEI Huali, LIAO Yingqiang, ZHANG Guangxi (749)

Microstructure and properties of C/C-CuNi composites prepared by hydrothermal co-deposition and carbothermal reduction reaction process  
..... ZHANG Chengge, OUYANG Haiibo, LI Cuiyan, DONG Jijie (756)

### THERMAL PROTECTIVE AND INSULATING MATERIALS

Ablation characteristics of EPDM separation device of dual-pulse motor during the pulse I operation  
..... BIAN Yunlong, LI Yingkun, LI Haiyang, SHEN Zhibin, WU Guofu (764)

Investigation on mechanical properties unstable tensile damage mechanism of EPDM insulation reinforced by PI fiber  
..... LIU Congpeilin, WANG Mingchao, ZHANG Jian, XU Shengliang, HUANG Zhiping (772)

### MEASURING, TESTING AND SAFETY EVALUATION

Deep learning method for interface debonding detection of solid rocket motor  
..... DENG Liangliang, QU Wenzhong, BAI Xiaoping, LIU Bin (779)

Research on simulating dynamic pressure control technology for missile launcher based on gas impact  
..... LAN Baogang, PAN Wuxian, LIU Tuo, HUO Fei (788)

Experimental study on ultrasonic parameters variation of HTPB propellant with high temperature accelerated aging  
..... LI Jian, HUANG Liuchun, AI Dewen, ZHAO Liang, WU Chao, LI Bojun (794)

### LAUNCH VEHICLE AND MISSILE TECHNOLOGY

Influence of canister launcher layouts on load of adjacent equipments for underwater ejection  
..... LU Bingju, WEI Chao, BI Fengyang, ZHAO Shiping, LI Chaoyan, BI Shihua (801)

### ENGINEERING NOTE

Structure-process-performance integrated software platform for needled C/C composite  
..... CHENG Bo, GONG Zhanpeng, DENG Junkai, BAI Xia, LI Yan, ZHANG Chengshuang (807)