爆炸与冲击

1981 年 7 月创刊 2020 年 8 月 第 40 卷 第 8 期 (总第 202 期)

BAOZHA YU CHONGJI

目 次

・特别约稿与研究综述・

一种基于电磁霍普金森杆的材料动态包辛格效应测试装置及方法	杜冰,郭亚洲,李玉龙 081101
------------------------------	-------------------

・爆炸物理・

聚能射流对固体火箭发动机的冲击起爆	082101
基于面积折减等效模型的光电倍增管水下内爆机理研究 孟令存,闫明,杜志鹏,张磊	082102
多孔障碍物对预混火焰传播的影响 程方明,常助川,史合,高彤彤,罗振敏,葛天姣	082103
三种盐类超细水雾抑制管道内甲烷-空气预混气爆炸的差异性贾海林,翟汝鵰,李第辉,项海军,杨永钦	082201

・冲击动力学・

激光金属沉积 GH4169 在不同应变率下的剪切特性及破坏机理研究 李小龙,李鹏辉,郭伟国,袁康博	083101
节理充填物厚度对运动裂纹扩展的影响 宋彦琦,李向上,刘济琛,王鹏懿	083102
爆炸波在非饱和钙质砂中的传播规律赵章泳,王明洋,邱艳宇,紫民,邢化岛	083201
弹体侵彻 YAG 透明陶瓷 / 玻璃的剩余深度	083301
刚性钝头弹体正冲击 GH4169 间隔靶的消耗功分析 孙永壮, 吕中杰, 黄风雷, 刘彦	083302

・实验技术与数值方法・

基于 Hopkinson 压杆的 M 型试样动态拉伸实验方法研究

・应用爆炸力学・

基于仿真与量纲分析的不同药量 TNT 内爆下多舱室结构毁伤规律研究		
	焦晓龙,赵鹏铎,姚养无,张磊,李旭东,池海	085101

EXPLOSION AND SHOCK WAVES Vol. 40, No. 8, 2020 (Sum No. 202) **CONTENTS**

Invited Article & General Review

A novel technique for determining the dynamic Bauschinger effect by electromagnetic Hopkinson bar	
DU Bing, GUO Yazhou, LI Yulong	081101
Explosion Physics	
Impact initiation of a solid-rocket engine by a shaped-charge jet PANG Songlin, CHEN Xiong, XU Jinsheng, WANG Yongping	082101
Underwater implosion mechanism of PMT area reduction equivalent model	
MENG Lingcun, YAN Ming, DU Zhipeng, ZHANG Lei	082102
Multi-hole obstacles' effects on premixed flame's propagation	
······ CHENG Fangming, CHANG Zhuchuan, SHI He, GAO Tongtong, LUO Zhenmin, GE Tianjiao	082103
Differences of premixed methane-air explosion in pipelines suppressed by three ultrafine water mists containing different salts	
JIA Hailin, ZHAI Rupeng, LI Dihui, XIANG Haijun, YANG Yongqin	082201
• Impact Dynamics •	
Shear characteristics and failure mechanism of laser metal deposition GH4169 at different strain rates	
LI Xiaolong, LI Penghui, GUO Weiguo, YUAN Kangbo	083101
Effects of joint filling thickness on crack propagation behaviorsSONG Yanqi, LI Xiangshang, LIU Jichen, WANG Pengyi	083102
The propagation laws of blast wave in unsaturated calcareous sand	

······ZHAO Zhangyong, WANG Mingyang, QIU Yanyu, ZI Min, XING Huadao	083201
Residual penetration depth of a projectile into YAG transparent ceramic/glass	

······CHEN Beibei, ZHANG Xianfeng, DENG Jiajie, ZHANG Jian, BAO Kuo, TAN Mengting	083301
Consumption work of GH4169 spacer plates in positive impact by blunt rigid projectiles	
SUN Yongzhuang, LYU Zhongjie, HUANG Fenglei, LIU Yan	083302

Experimental Techniques & Numerical Methods

A dynamic tensile method for M-shaped specimen loaded by Hopkinson pressure bar SHU Qi, DONG Xinlong, YU Xinlu 084101

Applied Explosion Mechanics

Regulation of different quantity TNT blasting in multi-cabin structure based on simulation and dimensional analysis JIAO Xiaolong, ZHAO Pengduo, YAO Yangwu, ZHANG Lei, LI Xudong, CHI Hai 085101