

《中文核心期刊要目总览》力学类核心期刊
中科院《中国科学引文数据库》
科技部《中国科技论文与引文数据库》统计源期刊
中国科协《科技期刊论文数据库》
EI Compendex、CA 收录的科技期刊

ISSN 1001-1455
CODEN BAYCE7

爆炸与冲击

EXPLOSION AND SHOCK WAVES

第 33 卷 第 2 期

2013



中国力学学会主办

目次

周期分布缺陷对韧性材料高应变率拉伸碎裂过程的影响·····	郑宇轩,周风华,胡时胜	(113)
泡沫铝爆炸冲击特性的数值研究·····	倪小军,马宏昊,沈兆武,李磊	(120)
软岩的动态力学本构模型·····	赵光明,谢理想,孟祥瑞	(126)
DSPH 方法的有效性验证及应用·····	闫蕊,徐绯,张岳青	(133)
爆破振动信号的提升小波包分解及能量分布特征·····	路亮,龙源,谢全民,李兴华,纪冲,赵长啸	(140)
多功能含能结构材料冲击压缩特性的理论计算·····	史安顺,张先锋,乔良,魏胜,张将,何源,何勇	(148)
二维平纹编织 C/SiC 复合材料的超高速碰撞实验·····	杨扬,徐绯,张岳青,莫建军,陶彦辉	(156)
梯度变化对密度梯度蜂窝材料力学性能的影响·····	吴鹤翔,刘颖	(163)
混凝土薄板的侵彻破坏响应实验·····	徐伟芳,张方举,陈裕泽,毛勇建,任时成,陶俊林	(169)
沉底装药水中爆炸现象的实验研究·····	杨莉,汪玉,汪斌,黄超	(175)
水下爆炸爆源定位方法与误差分析·····	龙仁荣,付跃升,张庆明	(181)
切割式多爆炸成形弹丸成形及对钢靶的穿甲效应·····	赵长啸,龙源,余道强,纪冲,张洋溢,徐浩铭	(186)
舰用动爆冲击波记录系统的设计与应用·····	丁永红,尤文斌,马铁华	(194)
柱形爆炸容器安全概率的区间估计·····	刘钰,韩峰,董楠,陆希成,雷鸣	(200)

研究简报

异形传爆药柱的起爆能力·····	胡立双,胡双启,曹雄,孙建兵	(207)
爆轰驱动飞片撞击铁电体爆电换能的放电特性·····	顾林,张合	(212)
数值建模时骨料对混凝土侵彻及毁伤问题的影响·····	张凤国,刘军,梁龙河,楼建锋,王政	(217)
炸药装药密度对慢速烤燃响应特性的影响·····	智小琦,胡双启	(221)

EXPLOSION AND SHOCK WAVES

Vol. 33, No. 2, 2013

(Sum No. 148)

CONTENTS

Effects of periodically-distributed defects on ductile fragmentation process of materials under high strain-rate tension Zheng Yu-xuan, Zhou Feng-hua, Hu Shi-sheng (113)

Numerical study on impact properties of Al foam under explosive loading Ni Xiao-jun, Ma Hong-hao, Shen Zhao-wu, Li Lei (120)

A constitutive model for soft rock under impact load Zhao Guang-ming, Xie Li-xiang, Meng Xiang-rui (126)

Validation of DSPH method and its application to physical problems Yan Rui, Xu Fei, Zhang Yue-qing (133)

Decomposition and energy distribution of blasting vibration signal based on second generation wavelet packet (SGWP) Lu Liang, Long Yuan, Xie Quan-min, Li Xing-hua, Ji Chong, Zhao Chang-xiao (140)

Theoretical calculation on shock compression characteristics of multifunctional energetic structural materials Shi An-shun, Zhang Xian-feng, Qiao Liang, Wei Sheng, Zhang Jiang, He Yuan, He Yong (148)

Hypervelocity impact experiment on two-dimensional plain-woven C/SiC composites Yang Yang, Xu Fei, Zhang Yue-qing, Mo Jian-jun, Tao Yan-hui (156)

Influences of density gradient variation on mechanical performances of density-graded honeycomb materials Wu He-xiang, Liu Ying (163)

Experimental study on penetration responses of thin concrete targets Xu Wei-fang, Zhang Fang-ju, Chen Yu-ze, Mao Yong-jian, Ren Shi-cheng, Tao Jun-lin (169)

Experimental investigation on loading characteristics of underwater explosion from a bottom charge Yang Li, Wang Yu, Wang Bin, Huang Chao (175)

A location method for underwater explosion source and error analysis Long Ren-rong, Fu Yue-sheng, Zhang Qing-ming (181)

Formation of incised multiple explosively-formed projectiles and their armor-piercing effect against steel target Zhao Chang-xiao, Long Yuan, Yu Dao-qiang, Ji Chong, Zhang Yang-yi, Xu Hao-ming (186)

Design and application of a shock wave recorder used in warship subjected to dynamic explosive Ding Yong-hong, You Wen-bin, Ma Tie-hua (194)

Confidence interval estimation of security probability of cylindrical explosion vessel Liu Yu, Han Feng, Dong Nan, Lu Xi-cheng, Lei Ming (200)

Research notes

Initiation capacity of a special shape booster pellet Hu Li-shuang, Hu Shuang-qi, Cao Xiong, Sun Jian-bing (207)

Discharge characteristics of ferroelectric ceramics explosive to electrical transducer impacted by explosive-driven flyer Gu Lin, Zhang He (212)

Influence of aggregate on penetration process of concrete target when numerical modeling Zhang Feng-guo, Liu Jun, Liang Long-he, Lou Jian-feng, Wang Zheng (217)

Influences of charge densities on responses of explosives to slow cook-off Zhi Xiao-qi, Hu Shuang-qi (221)