

目次

基于 Rietveld 无标样定量研究 HMX 的 $\beta \rightarrow \delta$ 等温相变动力学·····	薛超,孙杰,宋功保,等	(113)
平板撞击下 C30 混凝土中冲击波的传播特性·····	王永刚,王礼立	(119)
基于 ALE 方法的飞机水面降落过程·····	贺谦,李元生,李磊,等	(125)
冲击作用下炸药热点形成的 3 维离散元模拟·····	尚海林,赵锋,王文强,等	(131)
钝圆头质量块对简支梁的多次弹塑性撞击·····	刘中华,尹晓春	(138)
反应金属冲击反应过程的理论分析·····	张先锋,赵晓宁,乔良	(145)
壳装炸药殉爆实验和数值模拟·····	王晨,伍俊英,陈朗,等	(152)
弹体侵彻与贯穿有限厚度混凝土靶体的力学特性·····	葛涛,刘保荣,王明洋	(159)
密闭空间煤粉的爆炸特性·····	高聪,李化,苏丹,等	(164)
冲击荷载下单层球面网壳的失效机理·····	王多智,范峰,支旭东,等	(169)
含筋率和弹着点对钢筋混凝土抗侵彻性能的影响·····	楼建锋,王政,朱建士,等	(178)
水电站地下厂房大型岩体洞室的抗爆性能·····	赵宝友,马震岳,梁冰,等	(183)
管道内一氧化碳和空气预热混合物的爆燃特性·····	张良,魏小林,余立新,等	(191)
螺栓连接结构的爆炸冲击破坏·····	金晶,吴新跃	(197)
SHPB 实验中的端面凹陷修正·····	宋力,胡时胜	(203)

研究简报

空气光学击穿的光线追踪模型·····	黄辉,洪延姬,李倩	(209)
离散多层爆炸容器的抗爆性能和尺寸效应·····	邓贵德,郑津洋,陈勇军,等	(215)
导炸弹连续打击下混凝土重力坝的破坏效应·····	李本平	(220)

EXPLOSION AND SHOCK WAVES

Vol. 30, No. 2, 2010

(Sum No. 130)

CONTENTS

Kinetics of $\beta \rightarrow \delta$ isothermal phase transition of HMX based on quantitative phase analysis using the Rietveld method	XUE Chao, SUN Jie, SONG Gong-bao, et al	(113)
Shock wave propagation characteristics in C30 concrete under plate impact loading	WANG Yong-gang, WANG Li-li	(119)
On dynamic structural response of an airplane landing onto water	HE Qian, LI Yuan-sheng, LI Lei, et al	(125)
Three-dimensional discrete element simulation of hot spots in explosives under shock loading	SHANG Hai-lin, ZHAO Feng, WANG Wen-qiang, et al	(131)
Multiple elastic-plastic impacts of a simple supported beam struck by a round-nosed mass	LIU Zhong-hua, YIN Xiao-chun	(138)
Theory analysis on shock-induced chemical reaction of reactive metal	ZHANG Xian-feng, ZHAO Xiao-ning, QIAO Liang	(145)
Experiments and numerical simulations of sympathetic detonation of explosives in shell	WANG Chen, WU Jun-ying, CHEN Lang, et al	(152)
Penetration and perforation of concrete targets with finite thickness by projectiles	GE Tao, LIU Bao-rong, WANG Ming-yang	(159)
Explosion characteristics of coal dust in a sealed vessel	GAO Cong, LI Hua, SU Dan, et al	(164)
Failure mechanism of single-layer reticulated domes subjected to impact loads	WANG Duo-zhi, FAN Feng, ZHI Xu-dong, et al	(169)
Effects of reinforcement ratio and impact position on anti-penetration properties of reinforced concrete	LOU Jian-feng, WANG Zheng, ZHU Jian-shi, et al	(178)
Blast resistance of large underground rock caverns in hydraulic power stations	ZHAO Bao-you, MA Zhen-yue, LIANG Bing, et al	(183)
Deflagration characteristics of a preheated CO-air mixture in a duct	ZHANG Liang, WEI Xiao-lin, YU Li-xin, et al	(191)
Explosion shock damage of structures assembled by bolted joints ...	JIN Jing, WU Xin-yue	(197)
Correction of end-face indentation in SHPB test	SONG Li, HU Shi-sheng	(203)

Research notes

A ray-tracing model of air optical breakdown	HUANG Hui, HONG Yan-ji, LI Qian	(209)
Anti-explosion capability and scale effect of discrete multi-layered explosion containment vessels	DENG Gui-de, ZHENG Jin-yang, CHEN Yong-jun, et al	(215)
Damage effect of a concrete gravity dam under continuous attacks of guided bombs	LI Ben-ping	(220)