

# 爆炸与冲击

BAOZHA YU CHONGJI

1981年7月创刊

2019年8月

第39卷 第8期

(总第190期)

## 目次

### · 特别约稿与研究综述 ·

- 岩石类介质侵彻效应的理论研究进展 ..... 李杰,程怡豪,徐天涵,王明洋 081101  
爆炸应力波与裂纹作用实验研究 ..... 杨仁树,许鹏,陈程 081102  
深部岩体变形破坏的特征能量因子与应用 ..... 陈昊祥,王明洋,李杰 081103

### · 冲击动力学 ·

- 基于裂纹扩展脆性岩石动力压缩力学特性研究 ..... 李晓照,戚承志 083101  
循环加卸载损伤大理岩的动力学特性 ..... 蔚立元,朱子涵,孟庆彬,靖洪文,苏海健,何明 083102  
基于波传播系数构建填实爆炸下花岗岩中运动及变形场 ..... 卢强,王占江,朱玉荣,丁洋,郭志昫 083103  
水冷却对高温花岗岩的细观损伤及动力学性能影响 ..... 朱要亮,俞缙,高海东,李刚,周先齐,郑小青 083104  
爆炸荷载作用下两平行裂纹对扩展中裂纹的影响规律 ..... 万端莹,朱哲明,刘瑞峰,刘邦 083105  
SHPB冲击作用下层状千枚岩多尺度破坏机理研究 ..... 武仁杰,李海波 083106  
非贯通裂隙岩体损伤演化率相关性及其变形特征 ..... 邓正定,向帅,周尖荣,王观石,王月梅 083107  
基于统一强度理论的岩石弹塑性本构模型及其数值实现 ..... 胡学龙,李克庆,蹇世杰 083108  
钨合金柱形弹超高速撞击水泥砂浆靶的侵彻深度研究 ..... 钱秉文,周刚,李进,李运良,张德志,张向荣,朱玉荣,谭书舜,景吉勇,张子栋 083301

### · 实验技术与数值方法 ·

- EEMD修正爆破加速度零漂信号中的最优白噪声系数 ..... 王志亮,陈贵豪,黄佑鹏 084201  
地下强爆炸诱发地表塌陷的试验模拟与应用 ..... 徐小辉,李杰,王明洋 084202

### · 应用爆炸力学 ·

- 水平光面爆破激发地震波的成分及衰减特征 ..... 高启栋,卢文波,杨招伟,严鹏,陈明 085201  
时程稳定性系数确定的边坡逐孔起爆孔间微差降振时间 ..... 周文海,梁瑞,陈金林,朱冕,陈鹏辉,楼晓明,王敦繁 085202  
结构爆破振动响应的频率与持续时间依赖性分析 ..... 刘义佳,卢文波,陈明,严鹏 085203

### · 学科相关 ·

- 岩石动力学简介 ..... 黄理兴 089101

# EXPLOSION AND SHOCK WAVES

Vol. 39, No. 8, 2019 (Sum No. 190)

## CONTENTS

### • Invited Article & General Review •

Review on theoretical research of penetration effects into rock-like material .....	LI Jie, CHENG Yihao, XU Tianhan, WANG Mingyang	081101
Interaction between blast stress waves and cracks .....	YANG Renshu, XU Peng, CHEN Cheng	081102
A characteristic energy factor for deformation and failure of deep rock masses and its application .....	CHEN Haoxiang, WANG Mingyang, LI Jie	081103

### • Impact Dynamics •

Study on microcrack growth-based dynamic compressive mechanical properties in brittle rocks .....	LI Xiaozhao, QI Chengzhi	083101
Dynamic characteristics of marble damaged by cyclic loading .....	YU Liyuan, ZHU Zihan, MENG Qingbin, JING Hongwen, SU Haijian, HE Ming	083102
Construction of motion and deformation field in granite under tamped explosion using wave propagation coefficient .....	LU Qiang, WANG Zhanjiang, ZHU Yurong, DING Yang, GUO Zhiyun	083103
Effect of water cooling on microscopic damage and dynamic properties of high-temperature granite .....	ZHU Yaoliang, YU Jin, GAO Haidong, LI Gang, ZHOU Xianqi, ZHENG Xiaoqing	083104
Effect of two parallel cracks on main propagating crack under blasting .....	WAN Duanying, ZHU Zheming, LIU Rui Feng, LIU Bang	083105
Multi-scale failure mechanism analysis of layered phyllite subject to impact loading .....	Wu Renjie, LI Haibo	083106
Rate correlation and deformation of damage evolution of non-penetrating fractured rock masses .....	DENG Zhengding, XIANG Shuai, ZHOU Jianrong, WANG Guanshi, WANG Yuemei	083107
The elastoplastic constitutive model of rock and its numerical implementation based on unified strength theory .....	HU Xuelong, LI Keqing, QU Shijie	083108
Penetration depth of hypervelocity tungsten alloy projectile penetrating concrete target .....	LIAN Bingwen, ZHOU Gang, LI Jin, LI Yunliang, ZHANG Dezhi, ZHANG Xiangrong, ZHU Yurong, TAN Shushun, JING Jiyong, ZHANG Zidong	083301

### • Experimental Techniques & Numerical Methods •

Optimal white noise coefficient in EEMD corrected zero drift signal of blasting acceleration .....	WANG Zhiliang, CHEN Guihao, HUANG Youpeng	084201
Simulation and analysis of surface subsidence associated with the underground strong explosion .....	XU Xiaohui, LI Jie, WANG Mingyang	084202

### • Applied Explosion Mechanics •

Components and attenuation of seismic waves induced by horizontal smooth blasting .....	GAO Qidong, LU Wenbo, YANG Zhaowei, YAN Peng, CHEN Ming	085201
Millisecond time for reducing vibration between two holes for slope blasting determined by stability coefficient of time history .....	ZHOU Wenhai, LIANG Rui, CHEN Jinlin, ZHU Mian, CHEN Penghui, LOU Xiaoming, WANG Dunfan	085202
Frequency and duration dependence analysis of structural blasting vibration response .....	LIU Yijia, LU Wenbo, CHEN Ming, YAN Peng	085203

### • Relevant •

A brief introduction to rock dynamics .....	HUANG Lixing	089101
---	--------------	--------