

中国科学引文数据库来源期刊
中文核心期刊
中国科技核心期刊
世界期刊影响力指数报告
JST日本科学技术振兴机构数据库收录 俄罗斯AJ收录
中国科技期刊卓越行动计划集群化试点项目期刊
有色金属领域高质量科技期刊分级目录
中国有色金属优秀出版物

ISSN 1006 - 7051

CN 11 - 3675 / TD

CODEN GBOAA9

ENGINEERING BLASTING

工

程

爆

破

3

2022

Vol.28No.3

中国有色金属工业协会主管
中国爆破行业协会主办

目 次

理论研究与科学实验

- 水下爆炸荷载作用下结构动力响应及损伤破坏 赵玉红,赵文达,闫秋实(1)
内拱处含壁厚减薄缺陷弯头的爆破压力研究 周凌志,王昱,郗彦辉,李乃文(11)
水下接触爆炸下钢筋混凝土板毁伤模式探究 胡锦华(17)
两点空爆下钢-混凝土-钢组合板的动力学性能分析 李帅清,曲艳东,于跃,李佳琦,左胜楠(24)

岩土爆破

- 柱状药包爆破漏斗影响因素研究 杜镀(32)
下穿隧道掘进爆破地表振动波传播规律 王海龙,李云赫,赵岩(39)
基于光面爆破原理的隧道中心沟槽爆破方法 王振浩(47)
软弱围岩大断面隧道掘进爆破方案优化 谢超群,李启月,陈元勇,张想,吴晓梦(55)
硬梁包水电站地下厂房顶拱开挖光面爆破试验 杨玉银,郝利军,杨仕杰,李俊峰,白军平(64)

拆除爆破

- 湘祁二线船闸复杂环境定向拆除爆破技术实践 周灿,段元振,方桂富(70)

特种爆破

- CO₂聚能剂燃烧与冲压实验研究 蔡余康,胡少斌,庞烁钢,邹柳宗,汤旋,颜正勇(77)
TiNi 合金/Q235 钢爆炸复合界面微观结构特性及其演化 周恒,马宏昊,沈兆武,杨明,徐俊峰(82)

爆破器材与装备

- 炸药爆炸产物组成的确立及其对爆热的影响 吴俊浩,郭子如,杜宝强,刘伟,张金元(91)
液态 CO₂相变爆炸激发药剂的爆炸性与安全性 杨海斌,汪旭光,王尹军,张建如(97)

爆破监测与安全

- 原位扩建隧道爆破振动的现场测试与小波分析 毛祚财(103)
减振孔对寺庙减振效果的应用与研究 王银涛,刘坚,刘敬智,李银忠(111)
基于粒子群算法的爆破振动速度智能预测方法 梁娟(117)
复杂地质条件下地铁隧道下穿建筑物减振爆破技术 胡平(122)
循环爆破对在建桥梁的振动影响研究 车云浩,池恩安,赵明生(129)
水下爆破软土地基远区振动效应预测 王璞,刘桐,杨帆,侯猛,蒋跃飞(137)

*

*

*

- 征稿简则 •《工程爆破》征稿简则 (封二)
• 征稿征订 •《工程爆破》征稿征订 (封三)

Contents

Theoretical study & scientific test

Dynamic response and damage destruction of structures under underwater explosion loads	ZHAO Yu-hong , ZHAO Wen-da , YAN Qiu-shi(1)
Study on burst pressure of elbows with wall-thinning defects at inner arch	ZHOU Ling-zhi , WANG Yu , QIE Yan-hui , LI Nai-wen(11)
Damage mode of reinforced concrete slabs under underwater contact explosion	HU Jin-hua(17)
Dynamic performance analysis of a steel-concrete-steel composite plate under two-point air blast loads	LI Shuai-qing , QU Yan-dong , YU Yue , LI Jia-qi , ZUO Sheng-nan(24)

Rock blasting

Influence factors of cylindrical charge blasting craters	DU Du(32)
Propagation law of surface vibration waves by underpass tunnel excavation blasting	WANG Hai-long , LI Yun-he , ZHAO Yan(39)
Tunnel central trench blasting method based on smooth blasting principles	WANG Zhen-hao(47)
Optimization of blasting scheme for large section tunnel in soft surrounding rock	XIE Chao-qun , LI Qi-yue , CHEN Yuan-yong , ZHANG Xiang , WU Xiao-meng(55)
Smooth blasting tests for the crown excavation of underground powerhouse at Yingliangbao Hydropower Station	YANG Yu-yin , HAO Li-jun , YANG Shi-jie , LI Jun-feng , BAI Jun-ping(64)

Demolition blasting

Technical practice of directional demolition blasting of Xiangqi second-line shiplock in the complex surroundings	ZHOU Can , DUAN Yuan-zhen , FANG Gui-fu(70)
---	---

Special blasting

Experimental study of combustion and impact fracturing for CO ₂ -EA	CAI Yu-kang , HU Shao-bin , PANG Shuo-gang , ZOU Liu-zong , TANG Xuan , YAN Zheng-yong(77)
Microstructure characteristics and evolution of TiNi alloy /Q235 steel explosive composite interface	ZHOU Heng , MA Hong-hao , SHEN Zhao-wu , YANG Ming , XU Jun-feng(82)

Blasting material & equipment

Determination of detonation product composition and its influence on the detonation heat	WU Jun-hao , GUO Zi-ru , DU Bao-qiang , LIU Wei , ZHANG Jin-yuan(91)
Explosiveness and safety of liquid CO ₂ phase change explosive excitant	YANG Hai-bin , WANG Xu-guang , WANG Yin-jun , ZHANG Jian-ru(97)

Blasting monitoring & safety

Field test and wavelet analysis of blasting vibration from in-situ tunnel expansion	MAO Zuo-cai(103)
Application and research of damping holes to the damping effect of Temple	WAN Yin-tao , LIU Jian , LIU Jing-zhi , LI Yin-zhong(111)
An intelligent method of blasting vibration velocity prediction based on particle swarm algorithm	LIANG Juan(117)
Blasting vibration reduction technology for subway tunnels beneath buildings in complex geological conditions	HU Ping(122)
Vibration impact of cyclic blasting on a bridge under construction	CHE Yun-hao , CHI En-an , ZHAO Ming-sheng(129)
Prediction of remote area vibration effect by underwater blasting of soft soil foundation	WANG Pu , LIU Tong , YANG Fan , HOU Meng , JIANG Yue-fei(137)