



全国中文核心期刊

中国百强报刊

ISSN 1000-6915

中国科协精品期刊

湖北十大名刊

CODEN YLGXF5

中国最具国际影响力学术期刊

EI核心收录期刊

岩石力学与工程学报

CHINESE JOURNAL OF

ROCK MECHANICS AND ENGINEERING



QK1702458

第36卷 第4期 (总第323期)

Vol.36 No.4 (Total No. 323)



CSRME

4

2017

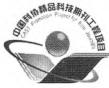
ISSN 1000-6915



9 771000 691178

中国岩石力学与工程学会 主办

科学出版社 出版



岩石力学与工程学报

2017年4月15日 第36卷 第4期(总第323期)

目次

乌东德水电站右岸地下厂房开挖围岩破坏模式及形成机制研究...李 昂, 戴 峰, 徐奴文, 顾功开, 刘 科, 李 彪 (781)

基于非线性动态强度准则的岩石动态变形过程统计损伤模拟方法.....曹文贵, 林星涛, 张 超, 杨 尚 (794)

煤矿冲击矿压动静载的“应力场 - 震动波场”监测预警技术.....
..... 窦林名, 姜耀东, 曹安业, 刘海顺, 巩思园, 蔡 武, 朱广安 (803)

考虑浆 - 岩耦合效应的微裂隙注浆扩散机制分析.....李术才, 郑 卓, 刘人太, 王晓晨, 张连震, 王洪波 (812)

Mine-by 试验洞开挖过程中围岩应力路径与破坏模式分析.....李建贺, 盛 谦, 朱泽奇, 冷先伦, 牛利敏, 刘世伟 (821)

组合支护结构加固高边坡的地震动响应特性研究.....付 晓, 张建经, 廖蔚茗, 曹礼聪, 范 刚 (831)

基于能量耗散原理的盐岩动力特性及破坏特征分析.....尤业超, 李二兵, 谭跃虎, 姜锡权, 段建立, 杨 蒙 (843)

高地应力下白鹤滩地下洞室群含错带岩体破坏模式及机制研究.....
.....段淑倩, 冯夏庭, 江 权, 刘国锋, 徐鼎平, 姚志宾, 樊义林, 王鹏飞 (852)

基于单视线向 D-InSAR 技术提取开采沉陷移动与变形方法研究.....王 磊, 张鲜妮 (865)

可控源微波场促进煤体中甲烷解吸的试验研究.....胡国忠, 朱怡然, 李志强 (874)

全长黏结注浆格构锚固工程模型试验研究.....陈春利, 殷跃平, 门玉明, 刘海南 (881)

降低滑坡地下水位的充气截排水法最佳充气压力研究.....余文飞, 孙红月, 沈佳轶, 吴梦萍 (890)

超高路堑边坡治理工程案例研究 I: 边坡失稳机制模拟分析.....王 浩, 王晓东, 泮 俊 (899)

等向强化 - 软化 Drucker-Prager 材料强度参数演化.....丁 祥, 张广清 (910)

新疆某高放废物预选处置库区地应力测量研究.....牛琳琳, 陈群策, 丰成君, 孟 文, 何建国 (917)

颗粒离散单元法地震动力时程计算黏性人工边界及其应用.....周兴涛, 盛 谦, 冷先伦, 付晓东, 崔 臻 (928)

循环荷载作用下石膏质岩的疲劳特性试验研究.....祝艳波, 黄 兴, 郭 杰, 肖 枫, 赵法锁 (940)

土压平衡盾构掘进对上软下硬地层扰动研究.....王 俊, 何 川, 胡瑞青, 代光辉, 王士民 (953)

基于破碎带涌水预测的山岭隧道施工许可机制研究.....蔡俊华 (964)

土工基础

冻融与荷载作用下土体内部孔隙水压力、水分变化规律及其模型试验研究.....
.....肖东辉, 马 巍, 赵淑萍, 张 泽, 冯文杰, 张莲海 (977)

微型桩 - 加筋土挡墙的模型试验和数值模拟分析.....张智超, 陈育民 (987)

考虑结构性影响的原状软黏土应力 - 应变特性真三轴试验研究.....代金秋, 苏仲杰, 赵明超, 项宇航 (997)

地震作用下挡土墙主动土压力计算方法.....张 健, 王新征, 胡瑞林 (1005)

黄土塬地区大直径长桩承载性状与优化设计研究.....朱彦鹏, 杨校辉, 马天忠, 李安民 (1012)

小曲率半径转弯隧道盾构施工扰动实测分析.....潘 泓, 苏文渊, 翟国林, 曹 洪, 骆冠勇 (1024)

膨胀土原位剪切模量 - 剪应变衰减曲线与特征分析.....李晶晶, 孔令伟, 金 磊 (1032)

博士学位论文摘要

构造与巨砾岩耦合条件下回采巷道冲击地压机理研究.....张科学 (1040)

动 态

下期内容预告..... (851)

责任编辑: 刘素锦 排版: 龚 倩

Chinese Journal of Rock Mechanics and Engineering

Vol. 36, No. 4 (Total No. 323) April 15, 2017

CONTENTS

Failure mechanism and mode of surrounding rock of underground powerhouse at the right bank of Wudongde hydropower station subjected to excavation.....	<i>LI Ang, DAI Feng, XU Nuwen, GU Gongkai, LIU Ke, LI Biao</i>	(781)
A statistical damage simulation method of dynamic deformation process for rocks based on nonlinear dynamic strength criterion.....	<i>CAO Wengui, LIN Xingtao, ZHANG Chao, YANG Shang</i>	(794)
Monitoring and pre-warning of rockburst hazard with technology of stress field and wave field in underground coalmines.....	<i>DOU Linming, JIANG Yaodong, CAO Anye, LIU Haishun, GONG Siyuan, CAI Wu, ZHU Guang'an</i>	(803)
Analysis on fracture grouting mechanism considering grout-rock coupling effect.....	<i>LI Shucai, ZHENG Zhuo, LIU Rentai, WANG Xiaochen, ZHANG Lianzhen, WANG Hongbo</i>	(812)
Analysis of stress path and failure mode of surrounding rock during Mine-by test tunnel excavation.....	<i>LI Jianhe, SHENG Qian, ZHU Zeqi, LENG Xianlun, NIU Limin, LIU Shiwei</i>	(821)
Shaking table test on seismic response of slopes reinforced by pile-cable retaining structure.....	<i>FU Xiao, ZHANG Jianjing, LIAO Weiming, CAO Licong, FAN Gang</i>	(831)
Analysis on dynamic properties and failure characteristics of salt rock based on energy dissipation principle.....	<i>YOU Yechao, LI Erbing, TAN Yuehu, JIANG Xiquan, DUAN Jianli, YANG Meng</i>	(843)
Failure modes and mechanisms for rock masses with staggered zones of Baihetan underground caverns under high geostress	<i>DUAN Shuqian, FENG Xiating, JIANG Quan, LIU Guofeng, XU Dingping, YAO Zhibin, FAN Yilin, WANG Pengfei</i>	(852)
Retrieving surface movement and deformation induced by coal mining based on a single D-InSAR pair.....	<i>WANG Lei, ZHANG Xianni</i>	(865)
Experimental study on desorption enhancing of methane in coal mass using a controlled microwave field.....	<i>HU Guozhong, ZHU Yiran, LI Zhiqiang</i>	(874)
Model test on fully grouted lattice beam anchorage.....	<i>CHEN Chunli, YIN Yueping, MEN Yuming, LIU Hainan</i>	(881)
Research on optimal air filling pressure for groundwater blocking and draining in slopes.....	<i>YU Wenfei, SUN Hongyue, SHEN Jiayi, WU Mengping</i>	(890)
A case study of super-high cut slope I: simulation and analysis of instability mechanism of slopes.....	<i>WANG Hao, WANG Xiaodong, PAN Jun</i>	(899)
Variation of strength parameters of Drucker-Prager material with isotropic hardening and softening.....	<i>DING Xiang, ZHANG Guangqing</i>	(910)
In-situ stress measurement of candidate area for high level radioactive waste repository in Xinjiang.....	<i>NIU Linlin, CHEN Qunce, FENG Chengjun, MENG Wen, HE Jianguo</i>	(917)
Viscous artificial boundary for seismic dynamic time-history analysis with granular discrete element method and its application.....	<i>ZHOU Xingtao, SHENG Qian, LENG Xianlun, FU Xiaodong, CUI Zhen</i>	(928)
Experimental study of fatigue characteristics of gypsum rock under cyclic loading.....	<i>ZHU Yanbo, HUANG Xing, GUO Jie, XIAO Feng, ZHAO Fasuo</i>	(940)
Soil disturbance induced by EPB shield tunnelling in upper-soft and lower-hard ground.....	<i>WANG Jun, HE Chuan, HU Ruiqing, DAI Guanghui, WANG Shimin</i>	(953)
Construction license mechanism of mountain tunnels based on inrush prediction of fracture zones.....	<i>CAI Junhua</i>	(964)
Research on pore water pressure and moisture content in soil subjected to freeze-thaw cycles and loading action by model test.....	<i>XIAO Donghui, MA Wei, ZHAO Shuping, ZHANG Ze, FENG Wenjie, ZHANG Lianhai</i>	(977)
Model test and numerical analysis of micropile-MSE wall.....	<i>ZHANG Zhichao, CHEN Yumin</i>	(987)
True triaxial tests on stress-strain characteristics of soft clay considering the structural effects.....	<i>DAI Jinqiu, SU Zhongjie, ZHAO Mingchao, XIANG Yuhang</i>	(997)
A calculation method of the earth pressure against retaining wall under seismic action.....	<i>ZHANG Jian, WANG Xinzheng, HU Ruilin</i>	(1005)
Bearing behavior and optimization design of large-diameter long pile foundation in loess subsoil.....	<i>ZHU Yanpeng, YANG Xiaohui, MA Tianzhong, LI Anmin</i>	(1012)
Soil disturbance induced by shield advancing through a small radius path.....	<i>PAN Hong, SU Wenyuan, ZHAI Guolin, CAO Hong, LUO Guanyong</i>	(1024)
In situ shear modulus and shear strain decay curves in expansive soils and analysis of its characteristics.....	<i>LI Jingjing, KONG Lingwei, JIN Lei</i>	(1032)
Mechanism study of coal bump under tectonic and ultra-thick conglomerate coupling conditions in mining roadway.....	<i>ZHANG Kexue</i>	(1040)

Editor: LIU Sujin Typist: GONG Qian



济南海威尔仪器有限责任公司

专注 专业 精准

专业致力于岩石行业的岩石力学试验仪器的设计、开发

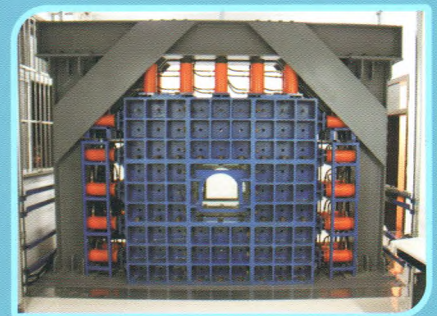
公司主要生产试验机、试验检测设备及试验机配件的高新技术型企业，并一直专业致力于岩石力学领域的自主开发、设计、生产。在岩石领域与各大名校、科研院所、各教授和博士一同开发了很多填补国内技术空白的岩石力学仪器。

- ◎ 标准岩土试验仪器
- ◎ 原位岩土试验仪器
- ◎ 各种大型岩土模拟试验平台
- ◎ 多场耦合单（三）轴试验系统，剪 / 渗耦合试验系统、刚性试验系统
- ◎ 试样制备仪器
- ◎ 定制各类非标岩土试验设备



▲ 室内大型伺服岩石直剪仪

▶ 室内大型抗压性能试验平台



深部空间结构力学试验模拟平台



岩土原位测试系统



深部巷道拱架大型力学试验系统



大直径可预置流固耦合试验装置



全国免费客服电话：400-0531-572

名称：济南海威尔仪器有限责任公司

联系人：宋海军

手机：13964141791

地址：济南市市中区王官庄40号

电话：0531-88332557

QQ：2890020007

厂址：济南市槐荫区济兗路705号

传真：0531-85990030

网址：www.jnhwe.com

国际标准连续出版物号
中国标准统一连续出版物号

ISSN 1000 - 6915
CN 42 - 1397/O3

广告经营
许可证

鄂工商广字 4200004000186

定价 60.00元/册
720.00元/年