



国家自然科学基金资助



中国科协精品科技期刊工程项目

# 岩石力学与工程学报

2010年5月25日 第29卷 增刊1(总第234期)

## 目 次

### 第一部分：岩石力学与地下(隧道)工程

三河尖矿深井高温体特征及其热害控制方法.....	何满潮, 郭平业, 陈学谦, 等 (2593)
特大跨度连拱隧道岩体节理的精细化描述及其块体稳定性分析.....	夏才初, 陈孝湘, 许崇帮, 等 (2598)
深井软岩巷道钢管混凝土支护结构性能试验及应用.....	高延法, 王波, 王军, 等 (2604)
加载速率对岩石材料力学行为的影响.....	尹小涛, 葛修润, 李春光, 等 (2610)
谦比希矿深部开采隔离矿柱稳定性分析.....	赵兴东 (2616)
深部侧空条件下顶板岩层分区破裂探测研究.....	谭云亮, 孙春江, 宁建国, 等 (2623)
深部开采水平应力场与地表远区移动分析.....	李文秀, 孟庆立, 闻磊, 等 (2630)
软弱夹层厚度模拟实用方法及其应用.....	张志强, 李宁, 陈方方, 等 (2637)
隧道掌子面前方低阻夹层的瞬变电磁探测研究.....	苏茂鑫, 李术才, 薛翊国, 等 (2645)
纵向裂隙隧道衬砌结构的安全评价与加固研究.....	王华牢, 刘学增, 李宁, 等 (2651)
共和隧道页岩饱水软化试验研究.....	藤宏伟, 任松, 姜德义, 等 (2657)
地铁土压平衡式盾构隧道施工安全评价模式研究.....	游鹏飞, 车瑞芳 (2663)
地铁隧道穿越地裂缝带的结构抗裂预留位移量.....	黄强兵, 彭建兵, 王启耀, 等 (2669)
采场围岩宏观应力壳演化特征.....	谢广祥, 杨科 (2676)
煤岩结构多尺度各向异性特征的SEM图像分析.....	宫伟力, 李晨 (2681)
基于连续介质力学的块体单元离散弹簧法研究.....	冯春, 李世海, 姚再兴 (2690)
金坛盐穴地下储气库地表沉降预测研究.....	屈丹安, 杨春和, 任松 (2705)
淮安盐岩及含泥质夹层盐岩应变全过程试验研究.....	唐明明, 王芝银, 丁国生 (2712)
未确知度模型在岩爆烈度分级预测中的应用.....	史秀志, 周健, 董蕾, 等 (2720)
水电工程岩体变形模量与波速相关性研究及应用.....	李维树, 黄志鹏, 谭新 (2727)
岩石的疲劳特性和临界应力测定方法研究.....	冯春林, 吴永丰, 冯福贤 (2734)
洞室围岩三种破坏形式的试验研究.....	宋义敏, 潘一山, 章梦涛, 等 (2741)
变容压力脉冲法渗透系数测量的误差分析.....	王颖, 李小春, 魏宁 (2746)
华北地区构造应力场非均匀特征与煤田深部应力状态.....	崔效锋, 谢富仁, 李瑞莎, 等 (2755)
利用地质统计学预测煤层厚度.....	杜文凤, 彭苏萍 (2762)
霍州矿区地应力分布规律实测研究.....	王连国, 陆银龙, 杨新华, 等 (2768)
饱水砂岩的剪切流变特性试验及模型研究.....	徐辉, 胡斌, 唐辉明, 等 (2775)
释能降压工法在高压富水岩溶隧道风险规避中的应用研究.....	张旭东, 汪海滨, 封明君, 等 (2782)
煤矿深部Y型大断面交岔点双控锚杆支护技术及工程应用.....	郭志隧, 王炯, 蔡峰, 等 (2792)
由实钻资料反演地应力及井壁稳定.....	赵海峰, 陈勉 (2799)
顶管穿越路堤实测地基变形和扰动程度分析.....	王斌, 陈帅, 陶柏峰, 等 (2805)
固液耦合试验隔水层相似材料的研究.....	黄庆享, 张文忠, 侯志成 (2813)
特大断面连拱隧道中墙偏压机制及施工影响分析.....	许崇帮, 夏才初, 王华牢 (2819)
微环境对流纹岩风化速度的影响.....	张中俭, 杨志法, 张路青, 等 (2827)
油井水力压裂摩阻计算和井口压力预测.....	刘合, 张广明, 张劲, 等 (2833)
灰岩在三轴变围压循环压缩中的变形特征研究.....	韩林, 刘向君, 孟英峰, 等 (2840)

责任编辑：刘素锦 付少兰 王金鸽 林松清 张海锋

期刊基本参数 CN 42 - 1397/O3\*1982\*m\*A4\*866\*zh+en\*P\* ¥ 160.00\*2000\*120\*2010 - 05

正断层活动对公路山岭隧道工程影响的数值分析	熊 娣, 范 文, 彭建兵, 等 (2845)
煤矿深部岩石力学性能试验分析与硬岩巷道快速掘进方法研究	袁文华, 马芹永 (2853)
复杂条件下地铁隧道马头门施工技术与监测分析	蒋青青, 黄晓阳, 周 哲, 等 (2858)

## 第二部分：岩土边坡工程

岩质边坡最危险滑裂面的 GA-Sarma 算法研究	谭儒蛟, 李明生, 张建根, 等 (2866)
东河口滑坡岩石微观结构及力学性质试验研究	孙 萍, 龚跃平, 吴树仁, 等 (2872)
基于 Hoek-Brown 准则的岩质边坡稳定性分析	刘立鹏, 姚磊华, 陈 洁, 等 (2879)
红层堆积体高边坡体结构及变形规律	王唤龙, 孙 敏, 周德培, 等 (2887)
树木对滚石拦挡效应研究	黄润秋, 刘卫华, 龚满福, 等 (2895)
露天转地下边坡变形 $\nu$ -SVR 模型及参数敏感性分析	王云飞, 郑晓娟 (2902)
唐家山滑坡成因机制与堰塞坝整体稳定性研究	李守定, 李 晓, 张 军, 等 (2908)
底部抽真空法在围垦工程中优越性研究(英)	武孟琼, 王保田 (2916)
应用 ABAQUS 程序进行渗流作用下边坡稳定分析	张晓冰, 戴自航 (2927)
高速公路边坡 CF 网防护抗冲刷室内模型试验研究	程 翱, 方 靓, 赵俊峰, 等 (2935)
高填方加筋新旧路堤现场试验与数值模拟分析	王家全, 周 健, 丛 林, 等 (2943)
基于坡度坡向原理的黏性土扫描电镜图像颗粒定向性研究	王宝军, 张明瑞, 施 斌 (2951)
垃圾填埋场边坡稳定可靠度分析	张文杰, 邱清文, 邱战洪 (2958)
爆炸荷载下岩质边坡动力特性试验及数值分析研究	钟冬望, 吴 亮, 陈 浩 (2964)
基于 GIS 的汶川地震滑坡灾害影响因子确定性系数分析	许 冲, 戴福初, 姚 鑫, 等 (2972)
爆破开挖对路堑高边坡稳定性影响分析	高文学, 刘宏宇, 刘洪洋, 等 (2982)
岩质边坡弹黏塑性计算参数位移反分析研究	谭万鹏, 郑颖人 (2988)

## 第三部分：土力学与基础工程

深基坑开挖对邻近桥桩的影响机制及控制措施研究	王 翠, 闫澍旺, 张启斌 (2994)
强夯置换法处理松软土地基若干问题研究	白 冰, 徐华轩, 刘海波, 等 (3001)
深基坑新型钢斜撑接头承载力试验研究	郭海柱, 张庆贺, 任小峰, 等 (3007)
冻融环境下约束混凝土应力 - 应变全曲线试验研究	段 安, 钱稼茹 (3015)
钙质砂中群桩模型试验研究	江 浩, 汪 稳, 吕颖慧, 等 (3023)
Drucker-Prager 准则在拉剪区的修正	李平恩, 舒有泉 (3029)
双排抗滑桩桩顶连接方式的优化设计	申永江, 孙红月, 尚岳全, 等 (3034)
框架微型桩结构抗滑特性的模型试验研究	孙书伟, 朱本珍, 马惠民 (3039)
有限元 Marc 模拟分析岩锚基础的破坏形态	杨海巍, 朱少荣, 卢继强, 等 (3045)
压力分散型锚索锚固段力学性能试验研究	张 勇, 赵红玲, 张向阳 (3052)
热脉冲法监测土坝集中渗漏的数值仿真	陈 江, 张少杰, 刘浩吾 (3057)
透气真空快速泥水分离技术对淤泥水分的促排作用	周 源, 高玉峰, 陶 辉, 等 (3064)
泰州大桥北塔群桩基础三维动力非线性抗震计算研究	戚玉亮, 冯紫良, 余 俊, 等 (3071)
复杂越流条件下超深基坑抽水试验及工程应用	王建秀, 吴林高, 胡力绳, 等 (3082)
黄土剪切蠕变特性试验研究	王松鹤, 骆亚生, 董晓宏, 等 (3088)
黄土公路阶梯状高路堑边坡稳定性研究	胡晋川, 谢永利, 王文生 (3093)
自重湿陷性黄土与单桩负摩阻力离心模型试验	王长丹, 王 旭, 周顺华, 等 (3101)
坑侧土体卸荷的侧向应力 - 应变关系研究	梅国雄, 陈 浩, 卢廷浩, 等 (3108)
变容压力脉冲法渗透系数测量技术测量范围的实验验证	王 颖, 李小春, 魏 宁 (3113)
Hill 稳定条件在有限元法计算地基承载力中的应用	王立忠, 舒 恒 (3122)
桩基荷载作用下隧洞破坏模式研究与安全分析	邱陈瑜, 郑颖人, 宋雅坤, 等 (3132)
红砂岩粗粒土剪胀效应大型三轴试验研究	陈晓斌 (3145)
一种新型高分子注浆材料的试验研究	李利平, 李术才, 张庆松, 等 (3150)

深圳湾新吹填超软土固结系数的试验研究	张 明, 赵有明, 龚 镛, 等 (3157)
双排抗滑桩的推力分担及优化设计	唐 芬, 郑颖人, 杨 波 (3162)
基于统一强度理论朗肯土压力的计算研究	张 健, 胡瑞林, 刘海斌, 等 (3169)

## 第四部分：水工岩石力学与地震工程

大跨径尾水岔洞开挖与衬砌稳定分析	林 鹏, 周雅能, 朱晓旭, 等 (3177)
土体小应变条件下紧邻地铁枢纽的超深基坑变形特性数值分析	褚 峰, 李永盛, 梁发云, 等 (3184)
地震作用下岩质边坡块体倾倒破坏分析	刘才华, 陈从新 (3193)
雅砻江官地水电站料场边坡开挖扰动及其影响因素	田 斌, 卢晓春, 黄耀英, 等 (3199)
水力压裂裂缝穿层及扭转扩展的三维模拟分析	李连崇, 梁正召, 李 根, 等 (3208)
松动圈分区模型及其在地下工程反馈分析中的应用	陈秋红, 李仲奎, 张志增 (3216)
基于 TSP203 系统和 GA-SVM 的围岩超前分类预测	邱道宏, 李术才, 张乐文, 等 (3221)
大坂膨胀性泥岩引水隧洞长期稳定性分析	戴永浩, 陈卫忠, 于洪丹, 等 (3227)
不同节理粗糙度系数单裂隙渗流特性试验研究	贺玉龙, 陶玉敬, 杨立中 (3235)
考虑围岩蠕变特性的隧道二衬合理支护时机确定方法	王中文, 方建勤, 夏才初, 等 (3241)
锦屏二级水电站隧洞涌水的数值反演与预测	夏 强, 王旭升, POETERE, 等 (3247)
裂纹线场分析方法在岩石力学中的应用	王 成 (3254)
倾斜岩层平巷围岩破坏特征的相似模拟试验研究	张明建, 邹进海, 魏世义, 等 (3259)
浅埋偏压连拱隧道非对称支护结构受力性状分析	王亚琼, 张少兵, 谢永利, 等 (3265)
岩石破损过程强度变化规律实测研究	张后全, 贺永年, 周纪军, 等 (3273)
花岗岩岩爆试验碎屑分形特征分析	李德建, 贾雪娜, 苗金丽, 等 (3280)
一种基于 II 型全过程曲线的岩爆倾向性指标	蔡 朋, 邬爱清, 汪 斌, 等 (3290)
紫坪铺隧道小净距段现场监测试验研究	姚 勇, 何 川, 张玲玲 (3295)
大跨度深埋洞室动力响应分析	赵跃堂, 方长海, 田绪坤 (3301)
含天然节理灰岩加、卸荷力学特性试验研究	王在泉, 张黎明, 孙 辉 (3308)
节理玄武岩体弹性波频散效应研究	刘永贵, 徐松林, 席道瑛, 等 (3314)
加筋高填石路堤填筑过程动态稳定性分析与监测	杨成忠, 刘新荣, 王淑芳, 等 (3321)
全长锚固锚杆在回采巷道层状顶板的工作特性	陆庭侃, 戴耀辉 (3329)
大倾角煤层工作面采场围岩矿压分布规律光弹性模型试验及现场实测研究	尹光志, 李小双, 郭文兵 (3336)
采煤工作面底板突水灾害发生的采掘扰动力学机制	虎维岳, 尹尚先 (3344)
含瓦斯突出煤三轴压缩下力学性质试验研究	李小双, 尹光志, 赵洪宝, 等 (3350)
地震诱发岩体崩塌的力学机制	何思明, 吴 永, 李新坡 (3359)
爆破地震波的能量衰减规律研究	李洪涛, 卢文波, 舒大强, 等 (3364)
考虑地震动行波效应的大型岩体地下洞室动力非线性反应分析	赵宝友, 马震岳, 梁 冰, 等 (3370)
汶川地震铁路工程震害特征及工程抗震设计对策思考	朱 颖, 魏永幸 (3378)
汶川地震路堤成灾模式及土工格栅加筋变形控制研究	王 建, 姚令侃, 陈 强 (3387)
不同地震动输入方向下的大型地下岩体洞室群地震反应分析	赵宝友, 马震岳, 丁秀丽 (3395)
石灰岩中球形装药封闭化爆试验的自由场应力和地运动	王占江, 门朝举, 刘冠兰, 等 (3403)
基于 Wigner-Ville 分布的黄土中爆炸地运动信号传播分析	蔡宗义, 王占江, 门朝举, 等 (3411)
断层采动活化对南方煤矿岩溶突水影响研究	李青锋, 王卫军, 彭文庆, 等 (3417)
不同建筑容积率下密集建筑群区地面沉降规律研究	唐益群, 宋寿鹏, 陈 斌, 等 (3425)
基于数字摄像测量的开挖空间模型及不稳定块体的快速识别	王述红, 杨 勇, 王 洋, 等 (3432)
岩质边坡稳定性分级方法的连续函数修正及其应用	李秀珍, 孔纪名, 王成华 (3439)

### 动态

第三届全国水工岩石力学学术会议第二号通知 ..... (I, II)

# Chinese Journal of Rock Mechanics and Engineering

Vol. 29, Supp.1 (Total No. 234) May 25, 2010

## CONTENTS

Research on Characteristics of High-temperature and Control of Heat-harm of Sanhejian Coal Mine .....	HE Manchao, GUO Pingye, CHEN Xueqian, et al	(2593)
Meticulous Description of Jointed Rock and Block Stability Analysis of Surrounding Rock of Super-large Section Multi-arch Tunnel.....	XIA Caichu, CHEN Xiaoxiang, XU Chongbang, et al	(2598)
Test on Structural Property and Application of Concrete-filled Steel Tube Support of Deep Mine and Soft Rock Roadway .....	GAO Yanfa, WANG Bo, WANG Jun, et al	(2604)
Influences of Loading Rates on Mechanical Behaviors of Rock Materials .....	YIN Xiaotao, GE Xiurun, LI Chunguang, et al	(2610)
Stability Analysis of Insulating Pillar of Excavation of Chambishi Copper Mine in Depth .....	ZHAO Xingdong	(2616)
Borehole Exploring Researches on Zonal Disintegration of Roof Strata with Lateral Cave in Deep Mine.....	TAN Yunliang, SUN Chunjiang, NING Jianguo, et al	(2623)
Analysis of Horizontal Stress Field and Far Field Movements due to Deep Mining.....	LI Wenxiu, MENG Qingli, WEN Lei, et al	(2630)
A Practical Method to Simulate Thickness of Weak Interbed and Its Application .....	ZHANG Zhiqiang, LI Ning, CHEN Fangfang, et al	(2637)
Research on Detection of Low Resistivity Interbed in Front of Tunnel Face by Means of Transient Electromagnetic Method .....	SU Maoxin, LI Shucui, XUE Yiguo, et al	(2645)
Safety Evaluation of Tunnel Lining with Longitudinal Cracks and Reinforcement Design .....	WANG Hualao, LIU Xuezeng, LI Ning, et al	(2651)
Experimental Study of Mechanical Properties of Water-saturated Weaken Shale in Gonghe Tunnel.....	TENG Hongwei, REN Song, JIANG Deyi, et al	(2657)
Safety Assessment Model of Metro EPB Shield Tunnel Construction .....	YOU Pengfei, MOU Ruifang	(2663)
Reserved Displacements for Anti-crack Design of Metro Tunnel Passing Through Active Ground Fissure Zones.....	HUANG Qiangbing, PENG Jianbing, WANG Qiyao, et al	(2669)
Study of Macro Stress Shell Evolving Characteristics of Rock Surrounding Face .....	XIE Guangxiang, YANG Ke	(2676)
Multi-scale and Anisotropic Characterization of Coal Structure Based on SEM Image Analysis .....	GONG Weili, LI Chen	(2681)
Study of Block-discrete-spring Method Based on Continuum Mechanics .....	FENG Chun, LI Shihai, YAO Zaixing	(2690)
Study and Prediction of Surface Subsidence of Salt Rock Caves Used for Gas Storages in Jintan Salt Mine.....	QU Dan'an, YANG Chunhe, REN Song	(2705)
Experimental Study of Full Process of Strain of Rock Salt and Salt-mudstone Interlayer in Huai'an Salt Mine .....	TANG Mingming, WANG Zhiyin, DING Guosheng	(2712)
Application of Unascertained Measurement Model to Prediction of Classification of Rockburst Intensity .....	SHI Xuzhi, ZHOU Jian, DONG Lei, et al	(2720)
Research and Application of Correlation between Deformation Modulus and Wave Velocity of Rock Mass in Hydroelectric Project.....	LI Weishu, HUANG Zhipeng, TAN Xin	(2727)
Study of Fatigue Properties and Critical Stress Measurement Method of Rock .....	FENG Chunlin, WU Yongfeng, FENG Fuxian	(2734)
Experimental Investigation on Fracture of Three Types of Underground Caverns .....	SONG Yimin, PAN Yishan, ZHANG Mengtao, et al	(2741)
Error Analysis of Storage-variable Transient Pulse Method for Permeability Measurement .....	WANG Ying, LI Xiaochun, WEI Ning	(2746)
Heterogeneous Features of State of Tectonic Stress Filed in North China and Deep Stress in Coal Mine .....	CUI Xiaofeng, XIE Furen, LI Ruisha, et al	(2755)
Coalseam Thickness Prediction with Geostatistics .....	DU Wensfeng, PENG Suping	(2762)
Study of Distribution Characteristics of In-situ Stresses for Huozhou Mining Area .....	WANG Lianguo, LU Yinlong, YANG Xinhua, et al	(2768)
Experiment and Model Research on Shear Rheological Properties of Saturated Sandstone .....	XU Hui, HU Bin, TANG Huiming, et al	(2775)
Study of the Application of Energy Releasing and Pressure Reducing Aim to Evade Risk in Water-enriched High Hydraulic Pressure Latent Karst Tunnel .....	ZHANG Xudong, WANG Haibin, FENG Mingjun, et al	(2782)
Application and Double-direction Control Bolt Support Technology of Large Span Y-type Intersection in Deep Coal Mine .....	GUO Zhibiao, WANG Jiong, CAI Feng, et al	(2792)
Inverse Analysis from Actual Data to Determine Geostress and Wellbore Stability .....	ZHAO Haifeng, CHEN Mian	(2799)
Measured Deformation and Degree of Disturbance Analysis of Embankment during Pipe Jacking through Expressway Foundation .....	WANG Bin, CHEN Shuai, TAO Baifeng, et al	(2805)
Study of Simulation Materials of Aquifuge for Solid-liquid Coupling .....	HUANG Qingxiang, ZHANG Wenzhong, HOU Zhicheng	(2813)
Analysis of Mechanism of Mid-partition Eccentric Compression and Construction Effect on Super-large Section Multi-arch Tunnel .....	XU Chongbang, XIA Caichu, WANG Hualao	(2819)
Influence of Microenvironment on Rhyolite Weathering Rate .....	ZHANG Zhongjian, YANG Zhifa, ZHANG Luqing, et al	(2827)
Friction Loss Calculation and Surface Pressure Prediction in Oil Well Hydraulic Fracturing .....	LIU He, ZHANG Guangming, ZHANG Jin, et al	(2833)
Study of Deformation Behaviours of Limestone under Cycle Triaxial Compression with Different Confining Pressures .....	HAN Lin, LIU Xiangjun, MENG Yingfeng, et al	(2840)
Numerical Analysis of Effect of Normal Fault Activity on Road Mountain Tunnel Project .....	XIONG Wei, FAN Wen, PENG Jianbing, et al	(2845)

Study of Rock Mechanical Properties and Rapid Excavation Method for Hard Rock Roadways in Deep Coal Mine .....	YUAN Wenhua, MA Qirong	(2853)
Construction Technology and Monitoring Analysis of Subway Tunnel Ingate under Complex Condition .....	JIANG Qingqing, HUANG Xiaoyang, ZHOU Kai, et al	(2858)
Study of GA-Sarma Algorithm of Critical Slip Surface of Rock Slope ..... TAN Ruijiao, LI Mingsheng, ZHANG Jiangeng, et al		(2866)
Experimental Study of Microstructure and Mechanical Properties of Rocks from Donghekou Landslide.....	SUN Ping, YIN Yueping, WU Shuren, et al	(2872)
Rock Slope Stability Analysis Based on Hoek-Brown Failure Criterion ..... LIU Lipeng, YAO Leihua, CHEN Jie, et al		(2879)
Slope Structure and Excavation Deformation Regularity of High Slope Composed with Red Bed Accumulation Body.....	WANG Huanlong, SUN Yi, ZHOU Depei, et al	(2887)
Study of Trees Resistance Effect Test on Rolling Rock Blocks ..... HUANG Runqiu, LIU Weihua, GONG Manfu, et al		(2895)
Sensitivity Analysis of Model Parameters and $v$ -SVR Model of Slope Deformation due to Excavating from Open-pit to Underground Mining .....	WANG Yunfei, ZHENG Xiaojuan	(2902)
Study of Geological Origin Mechanism of Tangjiashan Landslide and Entire Stability of Landslide Dam .....	Li Shouding, Li Xiao, ZHANG Jun, et al	(2908)
Advantages Study of Vacuum Preloading at Bottom of Soil Layer for Reclamation Projects .....	VU Manh Quynh, WANG Baotian	(2916)
Analysis of Slope Stability under Seepage by Using ABAQUS Program.....	ZHANG Xiaoyong, DAI Zihang	(2927)
Indoor Scour Model Test of Expressway Slope Ecology Protection Using Coconut Fibre Nets .....	CHENG Ye, FANG Liang, ZHAO Junfeng, et al	(2935)
Analysis between Numerical and Field Tests of High Fill Reinforced Widening Embankment .....	WANG Jiaquan, ZHOU Jian, CONG Lin, et al	(2943)
Quantitative Analysis of Orientation Distribution of Soil Grains Based on Slope-aspect Theory .....	WANG Baojun, ZHANG Mingrui, SHI Bin	(2951)
Reliability Analysis of Stability of a Municipal Solid Waste Landfill..... ZHANG Wenjie, QIU Qingwen, QIU Zhanhong		(2958)
Model Test and Numerical Simulation Study of Dynamic Characteristics of Rock Slope under Blast Loading .....	ZHONG Dongwang, WU Liang, CHEN Hao	(2964)
GIS Based Certainty Factor Analysis of Landslide Triggering Factors in Wenchuan Earthquake .....	XU Chong, DAI Fuchu, YAO Xin, et al	(2972)
Road High Cutting Slope Stability Analysis under Influence of Blasting for Excavation .....	GAO Wenzue, LIU Hongyu, LIU Hongyang, et al	(2982)
Study of Displacement Back Analysis of Elasto-viscoplastic Parameters of Rock Slope ..... TAN Wanpeng, ZHENG Yingren		(2988)
Study of Influence of Deep Pit Excavation on Adjacent Bridge Foundation Piles ..... WANG Cui, YAN Shuwang, ZHANG Qibin		(2994)
Some Problems on Dynamic Replacement Method to Improve Soft Soil Ground ..... BAI Bing, XU Huaxuan, LIU Haibo, et al		(3001)
Experimental Study of a New Welded Joint of Steel Diagonal Bracing in Deep Pit Excavation.....	GUO Haizhu, ZHANG Qinghe, REN Xiaofeng, et al	(3007)
Stress-strain Relationship of Stirrup-confined Concrete Subjected to Freeze-thaw Cycles.....	DUAN An, QIAN Jiaru	(3015)
Model Tests of Pile Groups in Calcareous Sands.....	JIANG Hao, WANG Ren, LU Yinghui, et al	(3023)
Modification of Drucker-Prager Criterion in Tensile Shear Region .....	LI Ping'en, YIN Youquan	(3029)
Optimization Design of Connection Methods of Double-row Anti-slide Piles Tip .....	SHEN Yongjiang, SUN Hongyue, SHANG Yuequan, et al	(3034)
Model Experimental Research on Anti-sliding Characteristics of Micropiles with Cap Beam .....	SUN Shuwei, ZHU Benzhen, MA Huimin	(3039)
Simulation and Analysis of Rock Anchorage Failure Modes by Finite Elements of Marc .....	YANG Haiwei, ZHU Shaorong, LU Jiqiang, et al	(3045)
Test Study of Mechanical Performances of Anchorage Zone of Pressure Dispersion Anchor Cable Style.....	ZHANG Yong, ZHAO Hongling, ZHANG Xiangyang	(3052)
Numerical Simulation for Concentrated Leakage Monitoring of Rock-fill Dam with Heat Pulse Method .....	CHEN Jiang, ZHANG Shaojie, LIU Haowu	(3057)
Drainage-promotion Effect of Aeration Vacuum Rapid Mud-water Separating Technique on Dredged Sludge.....	ZHOU Yuan, GAO Yufeng, TAO Hui, et al	(3064)
Research on 3D Dynamic Nonlinear Aseismic Calculation of Pile Group Foundation of North Tower of Taizhou Bridge .....	QI Yuliang, FENG Ziliang, YU Jun, et al	(3071)
Pumping Test and Its Application to Deep Foundation Pit under Complex More Flow Hydrogeological Conditions .....	WANG Jianxiu, WU Lingao, HU Lisheng, et al	(3082)
Experimental Study of Shear Creep Characteristics of Loess ..... WANG Songhe, LUO Yasheng, DONG Xiaohong, et al		(3088)
Study of Stability Characteristics of Multi-stair High Cut Slope in Loess Highway.....	HU Jinchuan, XIE Yongli, WANG Wensheng	(3093)
Centrifugal Model Tests on Self-weight Collapsible Loess and Negative Skin Friction of Pile Foundations .....	WANG Changdan, WANG Xu, ZHOU Shunhua, et al	(3101)
Research on Lateral Stress-strain Relation on Side of Foundation Pit with Lateral Unloading .....	MEI Guoxiong, CHEN Hao, LU Tinghao, et al	(3108)
Experimental Study of Storage-variable Transient Pulse Method for Permeability Measurement .....	WANG Ying, LI Xiaochun, WEI Ning	(3113)
Application of Hill's Stability Condition to Bearing Capacity Computation of Foundation with Finite Element Method .....	WANG Lizhong, SHU Heng	(3122)
Failure Pattern Study and Security Analysis of Tunnel Affected by Pile Load.....	QIU Chenyu, ZHENG Yingren, SONG Yakun, et al	(3132)
Study of Dilatancy Effect of Redstone Coarse Grained Soil by Large Scale Triaxial Tests .....	CHEN Xiaobin	(3145)
Experimental Study of a New Polymer Grouting Material .....	LI Liping, LI Shucui, ZHANG Qingsong, et al	(3150)
Test Study of Coefficient of Consolidation of Fresh Hydraulic Fill Ultra-soft Soil in Shenzhen Bay .....	ZHANG Ming, ZHAO Youming, GONG Lei, et al	(3157)

Thrust Share Ratios and Optimization Design for Two-row Anti-slide Piles .....	<i>TANG Fen, ZHENG Yingren, YANG Bo</i>	(3162)
Calculation Study of Rankine Earth Pressure Based on Unified Strength Theory .....	<i>ZHANG Jian, HU Ruilin, LIU Haibin, et al</i>	(3169)
Stability Analysis of Excavation and Lining Structure of Large-span Tailrace Bifurcation Tunnel.....	<i>LIN Peng, ZHOU Yaneng, ZHU Xiaoxu, et al</i>	(3177)
Numerical Analysis of Deformation of Deep Excavation Adjacent to Metro Considering Small-strain Stiffness of Soil .....	<i>CHU Feng, LI Yongsheng, LIANG Fayun, et al</i>	(3184)
Analysis of Toppling Failure of Rock Slopes due to Earthquakes .....	<i>LIU Caihua, CHEN Congxin</i>	(3193)
Excavation Disturbance and Its Influential Factors on Material-yard Slope of Guandi Hydropower Station in Yalong River .....	<i>TIAN Bin, LU Xiaochun, HUANG Yaoying, et al</i>	(3199)
Three-dimensional Numerical Analysis of Traversing and Twisted Fractures in Hydraulic Fracturing .....	<i>LI Lianchong, LIANG Zhengzhao, LI Gen, et al</i>	(3208)
Loosening Zonal Model and Its Application to Back Analysis of Underground Engineering .....	<i>CHEN QiuHong, LI Zhongkui, ZHANG Zhizeng</i>	(3216)
Prediction of Surrounding Rock Classification in Advance Based on TSP203 System and GA-SVM .....	<i>OIU Daohong, LI Shucui, ZHANG Lewen, et al</i>	(3221)
Long-term Stability Analysis of Daban Diversion Tunnel Buried in Swelling Mudstone .....	<i>DAI Yonghao, CHEN Weizhong, YU Hongdan, et al</i>	(3227)
Experimental Research on Hydraulic Behaviors in a Single Joint with Various Values of JRC .....	<i>HE Yulong, TAO Yujing, YANG Lizhong</i>	(3235)
Determination Method of Supporting Time for Secondary Lining in Tunnel Considering Rock Creep Behaviors .....	<i>WANG Zhongwen, FANG Jianqin, XIA Caichu, et al</i>	(3241)
Inverse Problems and Prediction of Water Inflow in Tunnels of Jinping II Hydropower Station .....	<i>XIA Qiang, WANG Xusheng, POETER E, et al</i>	(3247)
Application of Analytical Method of Crack Line Fields to Rock Mechanics .....	<i>WANG Cheng</i>	(3254)
Similarity Simulation Study of Failure Characteristics of Surrounding Rocks of Tilted Strata Roadway .....	<i>ZHANG Mingjian, GAO Jinhai, WEI Shiyi, et al</i>	(3259)
Mechanical Characteristics of Unsymmetrical Support Structure of Shallow-buried Bias Multi-arch Tunnel .....	<i>WANG Yaqiong, ZHANG Shaobing, XIE Yongli, et al</i>	(3265)
Experimental Study of Strength Evolution Laws in Rock Failure Process .....	<i>ZHANG Houquan, HE Yongnian, ZHOU Jijun, et al</i>	(3273)
Analysis of Fractal Characteristics of Fragment from Rockburst Test of Granite .....	<i>LI Dejian, JIA Xuena, MIAO Jinli, et al</i>	(3280)
A Rockburst Proneness Index Based on Class II Whole Process Curve .....	<i>CAI Peng, WU Aiqing, WANG bin, et al</i>	(3290)
Experimental Study of Site Monitoring of Zipingpu Tunnel with Small Clear Spacing .....	<i>YAO Yong, HE Chuan, ZHANG Lingling</i>	(3295)
Investigation of Dynamic Responses for Deeply-buried Wide Span Tunnel .....	<i>ZHAO Yuetang, FANG Changhai, TIAN Xukun</i>	(3301)
Experimental Research on Mechanical Properties of Limestone Containing Natural Joints under Loading and Unloading Conditions .....	<i>WANG Zaiquan, ZHANG Liming, SUN Hui</i>	(3308)
Dispersion Effect of Elastic Wave in Jointed Basalts .....	<i>LIU Yonggui, XU Songlin, XI Daoying, et al</i>	(3314)
Dynamic Stability Analysis and Site Monitoring of Reinforced High Rockfill Embankment during Construction .....	<i>YANG Chengzhong, LIU Xinrong, WANG Shufang, et al</i>	(3321)
Performance of Fully Encapsulated Resin Rock Bolt in Laminated Roof Strata of Longwall Roadway .....	<i>LU Tingkan, DAI Yaohui</i>	(3329)
Photo-elastic Experimental and Field Measurement Study of Ground Pressure of Surrounding Rock of Large Dip Angle Working Coalface .....	<i>YIN Guangzhi, LI Xiaoshuang, GUO Wenbing</i>	(3336)
Dynamic Mechanism of Water Inrush from Floor of Mining Face .....	<i>HU Weiyue, YIN Shangxian</i>	(3344)
Experimental Study of Mechanical Properties of Outburst Coal Containing Gas under Triaxial Compression .....	<i>LI Xiaoshuang, YIN Guangzhi, ZHAO Hongbao, et al</i>	(3350)
Collapse Mechanism of Danger Rock Triggered by Earthquake .....	<i>HE Siming, WU Yong, LI Xinp</i>	(3359)
Study of Energy Attenuation Law of Blast-induced Seismic Wave .....	<i>LI Hongtao, LU Wenbo, SHU Daqiang, et al</i>	(3364)
Dynamic Nonlinear Response of a Large Underground Rock Cavern Subjected to Seismic Motion Considering Wave Passage Effect .....	<i>ZHAO Baoyou, MA Zhenyue, LIANG Bing, et al</i>	(3370)
Characteristics of Railway Damage due to Wenchuan Earthquake and Countermeasure Considerations of Engineering Seismic Design .....	<i>ZHU Ying, WEI Yongxing</i>	(3378)
Research on Failure Mode of Road Embankment in Wenchuan Great Earthquake and Deformation Control of Geogrid Reinforcement .....	<i>WANG Jian, YAO Lingkan, CHEN Qiang</i>	(3387)
Seismic Response of a Large Underground Rock Cavern Groups Considering Different Incident Angles of Earthquake Waves .....	<i>ZHAO Baoyou, MA Zhenyue, DING Xuli</i>	(3395)
Free-field Stress and Ground Motion of Underground Confined Chemical Explosions with Spherical Charge in Limestone .....	<i>WANG Zhanjiang, MEN Chaolu, LIU Guanlan, et al</i>	(3403)
Propagation Analysis of Ground Motion Induced by Explosion in Loess Based on Wigner-Ville Distribution .....	<i>CAI Zongyi, WANG Zhanjiang, MEN Chaolu, et al</i>	(3411)
Influence of Activation Fault after Coal Extraction on Coal Mine Karst Water-inrush .....	<i>LI Qingfeng, WANG Weijun, PENG Wenqing, et al</i>	(3417)
Study of Land Subsidence Rule of Dense Buildings under Different Floor Area Ratios .....	<i>TANG Yiqun, SONG Shoupeng, CHEN Bin, et al</i>	(3425)
Spatial Modelling and Quick Identification of Unstable Rock Blocks Based on Digital Photogrammetry .....	<i>WANG Shuhong, YANG Yong, WANG Yang, et al</i>	(3432)
Modification of Rock Slope Stability Classification Systems by Continuous Functions and Its Applications .....	<i>LI Xiuzhen, KONG Jiming, WANG Chenghua</i>	(3439)

Editors: LIU Sujin, FU Shaolan, WANG Jing, LIN Songqing, ZHANG Haifeng