

全国中文核心期刊 EI收录期刊  
中国科学院引文数据库来源期刊  
中国学术期刊综合评价数据库来源期刊  
剑桥科学文摘(CSA)检索  
湖北省优秀期刊

ISSN 1000-7598  
CN 42-1199/O3

# 岩土力学

Rock and Soil Mechanics

Vol.33 No.6

2012

中国科学院武汉岩土力学研究所 主办



科学出版社 出版

ISSN 1000-7598



06>

9 771000759120

万方数据

## 基础理论与实验研究

- 三轴应力作用下岩盐溶蚀特性试验研究.....汤艳春, 房敬年, 周辉 (1601)  
碱渣改良膨胀土室内试验研究.....孙树林, 郑青海, 唐俊, 等 (1608)  
周期荷载作用下盐岩声发射特征试验研究.....任松, 白月明, 姜德义, 等 (1613)  
水泥土各向异性变形特性研究.....宋新江, 徐海波, 王永雷, 等 (1619)  
 $K_0$  固结条件下粗粒土变形及强度特性研究.....褚福永, 朱俊高, 王平, 等 (1625)  
压实度和含水率对压实黏性土动态力学性能的影响试验研究.....刘俊新, 陈忠富, 徐伟芳, 等 (1631)  
岩石节理倾角和间距对隧道掘进机破岩特性影响的试验研究.....邹飞, 李海波, 周青春, 等 (1640)  
含充填节理岩体相似材料试件单轴压缩试验及断裂损伤研究.....张波, 李术才, 张敦福, 等 (1647)  
高黏性铝土矿放矿流动性试验与微观力学研究.....张春阳, 曹平, 范祥, 等 (1653)  
高温冻土松弛特性试验研究.....王松鹤, 齐吉琳 (1660)  
水平-竖向加筋饱和砂土动弹性模量试验研究.....邱成春, 张孟喜 (1667)  
混合型缓冲回填材料非饱和水分扩散试验研究.....张明, 张虎元, 贾灵艳 (1673)  
单轴压缩非贯通节理岩石尖端塑性区及弹塑性断裂模型研究.....袁小平, 刘红岩, 王志乔 (1679)  
地应力与岩石弹性模量关系试验研究.....秦向辉, 谭成轩, 孙进忠, 等 (1689)  
土钉加固黏性土坡加载的离心模型试验研究.....曹洁, 张嘎, 王丽萍 (1696)

## 岩土工程研究

- 高地应力破碎软岩巷道底臌特性及综合控制对策研究.....刘泉声, 肖虎, 卢兴利, 等 (1703)  
山区高填方地基蠕变沉降特性及简化计算方法探讨.....宋二祥, 曹光彬 (1711)  
谷竹高速公路原状片岩抗剪强度的水敏性研究.....刘建, 李建朋 (1719)  
基于最小二乘法的边坡稳定性分析.....贺建清, 刘秀军 (1724)  
加锚岩体流变特性及锚固控制机制分析.....赵同彬, 谭云亮, 刘姗姗, 等 (1730)  
双圆盾构施工引起邻近地下管线附加荷载的分析.....魏纲, 洪杰, 魏新江 (1735)  
超深孔一次成井微差爆破技术研究.....李廷春, 刘洪强, 王超 (1742)  
海堤地基固结系数反演与工后沉降分形模型预测.....秦植海, 秦鹏 (1747)  
微型抗滑桩土拱效应空间特征的细观力学分析.....姜春林, 李晋 (1754)  
隧道水平冻结施工引起地表冻胀的历时预测模型.....蔡海兵, 彭立敏, 郑腾龙 (1761)  
郑西高速铁路豫西段黄土现场浸水自重湿陷特征研究.....武小鹏, 熊治文, 王小军, 等 (1769)  
刚性基础下现浇 X 形桩复合地基桩-土应力比分析.....吕亚茹, 丁选明, 刘汉龙, 等 (1774)

- 丹巴县莫洛村滑坡的地质成因与稳定评价.....陈 菲, 邓建辉, 高明忠, 等 (1781)  
地震荷载作用下土钉支护边坡稳定性拟静力分析.....邓东平, 李 亮, 罗 伟 (1787)  
边坡模糊随机可靠性分析的模糊点估计法.....王 宇, 贾志刚, 李 晓, 等 (1795)  
高渗压条件下压剪岩石裂纹断裂损伤演化机制研究.....刘涛影, 曹 平, 章立峰, 等 (1801)

## 数值分析

- 基于下限原理有限元的强度折减法.....李春光, 朱宇飞, 刘 丰, 等 (1816)  
穿层爆破在南桐矿瓦斯抽放中的应用与数值模拟.....龚 敏, 文 斌, 王德胜 (1822)  
双面排水非线性固结超静孔压的非对称性解析.....丁洲祥, 仇玉良, 李 涛 (1829)  
倒 T 型导管墙桩基防波堤稳定性简化计算方法.....王元战, 张连丽, 商 丹, 等 (1839)  
基于混合粒子群算法和能量法主动土压力计算.....陈昌富, 唐仁华, 梁冠亭 (1845)  
考虑基坑开挖影响的群桩基础竖向承载性状数值分析.....王成华, 刘庆晨 (1851)  
成层 Gibson 地基中单桩沉降的非线性分析.....靳建明, 梁仕华 (1857)  
混凝土重力坝双滑面抗力方向角的取值研究.....郭明伟, 王水林, 邓 琴, 等 (1864)  
层状盐岩中储备库油气渗漏风险的故障树分析.....井文君, 杨春和, 陈 锋, 等 (1869)  
基于含水劣化特性的隧道围岩时效变形数值计算.....黄 明, 刘新荣, 邓 涛 (1876)  
深孔爆破装药结构优选数值分析方法及其应用.....刘优平, 龚 敏, 黄刚海 (1883)  
高堆石坝瞬变-流变参数三维全过程联合反演方法及变形预测.....马 刚, 常晓林, 周 伟, 等 (1889)  
裂隙网络无压渗流分析的初流量法.....姚 池, 姜清辉, 叶祖洋, 等 (1896)  
电场-渗流场-应力场耦合的电渗固结数值分析.....王柳江, 刘斯宏, 汪俊波, 等 (1904)  
天水黄土地区覆盖层厚度的反演研究.....曾立峰, 吴志坚, 陈 拓, 等 (1912)

## 讨 论

- 对“地震条件下挡土墙主动土压力及其分布的统一解”的讨论.....林宇亮 (1917)  
对“地震条件下挡土墙主动土压力及其分布的统一解”讨论的答复.....孙 勇 (1919)

## 简 讯

- 第十一届全国岩土力学数值分析与解析方法研讨会第 1 号通知.....(1828)  
《岩土力学》2012 年第 1 期被 EI 收录论文 (50 篇, 收录率 100%) .....(1838), (1888)  
岩爆、突水突泥灾害发生机制与防治、控制技术论坛.....(1863)  
《岩土力学》2012 年第 2 期被 EI 收录论文 (49 篇, 收录率 100%) .....(1918), (1920)

期刊基本参数: CN42-1199/O3\*1979\*m\*A4\*320\*zh\*P\* ¥35.00\*2000\*49\*2012-06

---

本期责任编辑: 田静 排版: 胡惠珍

## CONTENTS

Experimental study of rock salt dissolving characteristics under triaxial stress.....	TANG Yan-chun, FANG Jing-nian, ZHOU Hui (1601)
Experimental research on expansive soil improved by soda residue.....	SUN Shu-lin, ZHENG Qing-hai, TANG Jun, et al (1608)
Experimental research on acoustic emission property of salt rock under cyclic loading.....	REN Song, BAI Yue-ming, JIANG De-yi, et al (1613)
Study of characteristics of cement-soil anisotropic deformation.....	SONG Xin-jiang, XU Hai-bo, WANG Yong-lei, et al (1619)
Study of deformation and strength characteristics of coarse grained soil under $K_0$ -consolidation condition.....	CHU Fu-yong, ZHU Jun-gao, WANG Ping, et al (1625)
Experimental study of dynamic properties of compacted clay under different compaction degrees and water contents.....	LIU Jun-xin, CHEN Zhong-fu, XU Wei-fang, et al (1631)
Experimental study of influence of joint space and joint angle on rock fragmentation by TBM disc cutter.....	ZOU Fei, LI Hai-bo, ZHOU Qing-chun, et al (1640)
Uniaxial compression mechanical property test, fracture and damage analysis of similar material of jointed rock mass with filled cracks.....	ZHANG Bo, LI Shu-cai, ZHANG Dun-fu, et al (1647)
Hopper discharge experiment for high viscosity bauxite flow and micromechanics research.....	ZHANG Chun-ying, CAO Ping, FAN Xiang, et al (1653)
Experimental study of relaxation characteristics of warm permafrost.....	WANG Song-he, QI Ji-lin (1660)
Test research on dynamic elastic modulus of saturated sand reinforced with horizontal-vertical inclusions.....	QIU Cheng-chun, ZHANG Meng-xi (1667)
Unsaturated water diffusion in compacted bentonite-sand mixtures as a high level radioactive waste buffer by infiltration tests.....	ZHANG Ming, ZHANG Hu-yuan, JIA Ling-yan (1673)
Crack tip plastic zone and elastoplastic fracture model for nonpenetrating jointed rock mass under uniaxial compression.....	YUAN Xiao-ping, LIU Hong-yan, WANG Zhi-qiao (1679)
Experimental study of relation between in-situ crustal stress and rock elastic modulus.....	QIN Xiang-hui, TAN Cheng-xuan, SUN Jin-zhong, et al (1689)
Centrifugal model test on behavior of strip footing on soil nail-reinforced cohesive soil slopes.....	CAO Jie, ZHANG Ga, WANG Li-ping (1696)
Research on floor heave characteristics of broken soft rocks with high geostress and its comprehensive control measures.....	LIU Quan-sheng, XIAO Hu, LU Xing-li, et al (1703)
Characteristics and simplified calculation method of creep settlement of high fill foundation in mountain area.....	SONG Er-xiang, CAO Guang-xu (1711)
Study of shear strength water sensitivity of intact schist from Guzhu expressway.....	LIU Jian, LI Jian-peng (1719)
Slope stability analysis based on least square method.....	HE Jian-qing, LIU Xiu-jun (1724)
Analysis of rheological properties and control mechanism of anchored rock.....	ZHAO Tong-bin, TAN Yun-liang, LIU Shan-shan, et al (1730)
Analysis of additional load on adjacent underground pipeline induced by double-o-tube shield tunneling.....	WEI Gang, HONG Jie, WEI Xin-jiang (1735)
Study of millisecond blasting technology of shaft Excavation by one-step deep-hole blasting.....	LI Ting-chun, LIU Hong-qiang, WANG Chao (1742)
Consolidation coefficient inversion of seawall foundation and prediction of its post construction settlement based on fractal theory....	QIN Zhi-hai, QIN Peng (1747)

Mesomechanical analysis of spatial characteristics of soil arching effect on micro anti-slide pile system.....	JIANG Chun-lin, LI Jin (1754)
A duration prediction model of surface frost heave induced by tunnelling with horizontal freezing method.....	CAI Hai-bing, PENG Li-min, ZHENG Teng-long (1761)
Study of immersion collapsible characteristics under overburden pressure of Western Henan loess along Zhengzhou-Xi'an high-speed railway.....	WU Xiao-peng, XIONG Zhi-wen, WANG Xiao-jun, et al (1769)
Analysis of pile-soil stress ratio of cast-in-place X-section concrete pile composite foundation under rigid base.....	LÜ Ya-ru, DING Xuan-ming, LIU Han-long, et al (1774)
Geological cause and stability evaluation of Moluocun landslide, Danba county.....	CHEN Fei, DENG Jian-hui, GAO Ming-zhong, et al (1781)
Stability analysis of slope protected by soil nailing under earthquake loads based on pseudo static method.....	DENG Dong-ping, LI Liang, LOU Wei (1787)
Fuzzy random reliability analysis of slope based on fuzzy point estimate method.....	WANG Yu, JIA Zhi-gang, LI Xiao, et al (1795)
Study of fracture damage evolution mechanism of compression-shear rock cracks under high seepage pressure.....	LIU Tao-ying, CAO Ping, ZHANG Li-feng, et al (1801)
Evaluation of strength reduction factor by lower bound limit analysis using finite element method.....	LI Chun-guang, ZHU Yu-fei, LIU Feng, et al (1816)
Numerical simulation of blasting through strata for gas drainage in Nantong coal mine and its application.....	GONG Min, WEN Bin, WANG De-sheng (1822)
Spatial asymmetry of excess pore pressure during nonlinear consolidation with two-way drainage.....	DING Zhou-xiang, QIU Yu-liang, LI Tao (1829)
A simplified calculation method for stability of inverted T-type breakwater with jackets and pile foundations.....	WANG Yuan-zhan, ZHANG Lian-li, SHANG Dan, et al (1839)
Calculation of active earth pressure based on hybrid particle swarm algorithm and energy method.....	CHEN Chang-fu, TANG Ren-hua, LIANG Guan-ting (1845)
Numerical analysis of vertical bearing behavior of group pile foundation considering pit excavation effect.....	WANG Cheng-hua, LIU Qing-chen (1851)
Nonlinear analysis of settlement of axially loaded single pile in Gibson soil.....	JIN Jian-ming, LIANG Shi-hua (1857)
Research on determination of resistance angle of double slide mode in the concrete gravity dam.....	GUO Ming-wei, WANG Shui-lin, DENG Qin, et al (1864)
Oil and gas leakage risk analysis of underground storage caverns in bedded salt rock using fault tree analysis.....	JING Wen-jun, YANG Chun-he, CHEN Feng, et al (1869)
Numerical calculation of time effect deformations of tunnel surrounding rock in terms of water degradation.....	HUANG Ming, LIU Xin-rong, DENG Tao (1876)
Numerical analysis method for optimizing charging structure of deep-hole blasting and its application.....	LIU You-ping, GONG Min, HUANG Gang-hai (1883)
Integrated inversion of instantaneous and rheological parameters and deformation prediction of high rockfill dam.....	MA Gang, CHANG Xiao-lin, ZHOU Wei, et al (1889)
Initial flow method for unconfined seepage problems of fracture networks.....	YAO Chi, JIANG Qing-hui, YE Zu-yang, et al (1896)
Numerical analysis of electroosmotic consolidation based on coupled electrical field-seepage field-stress field.....	WANG Liu-jiang, LIU Si-hong, WANG Jun-bo, et al (1904)
Inversing study of overburden thickness in loess area of Tianshui.....	ZENG Li-feng, WU Zhi-jian, CHEN Tuo, et al (1912)