

ISSN 1000 - 4548  
CODEN YGXUEB

# 岩土工程学报

Chinese Journal of Geotechnical Engineering

第 44 卷      第 12 期 (总 385 期)  
Vol. 44      No. 12 (Total 385)

12  
(卷 终)  
2022

主 办

中国水利学会  
中国力学学会  
中国水力发电工程学会

中国土木工程学会  
中国建筑学会  
中国振动工程学会

ISSN 1000-4548



## 目 次

### 论 文

- 智能岩土工程初探 ..... 陈湘生, 洪成雨, 苏 栋 (2151)  
粗颗粒土三轴试样橡皮膜嵌入量试验研究 ..... 朱俊高, 朱材峰, 王思睿 (2160)  
水合物注热开采影响下海底斜坡动态稳定性评价 ..... 年廷凯, 宋晓龙, 张 浩, 荣 泽 (2167)  
前期降雨与库水位变化对土石坝渗流及稳定特性影响研究 ..... 李 卓, 方艺翔, 鲁 洋, 刘 康, 张勇敢 (2177)  
竖向动荷载作用下端承型群桩动力相互作用解析解 ..... 郑长杰, 崔亦秦, 丁选明, 乘鲁宝 (2187)  
考虑损伤界限模糊性的地铁车站结构抗震性能评价 ..... 钟紫蓝, 史跃波, 李锦强, 赵 密, 杜修力 (2196)  
As(V)在粉质黏土中的吸附特性研究 ..... 季永新, 张文杰, 黄津祥 (2206)  
基于透明土的成层土中 CPT 贯入试验研究 ..... 卢 谅, 何 兵, 肖 亮, 王宗建, 马书文, 林浩鑫 (2215)  
盾构隧道壁后注浆浆液与地层适配性优选方法 ..... 叶 飞, 夏天晗, 应凯臣, 李永健, 梁晓明, 韩兴博 (2225)  
发泡颗粒混合轻量土静止土压力特性及计算方法研究 ..... 侯天顺, 郭鹏斐, 杨凯旋, 王 琪, 骆亚生 (2234)  
无源环境振动的有限元分析方法及在北京光源工程应用 ..... 顾晓强, 余宽原, 黄茂松, 刘 鑫, 闫 芳, 吴德顺 (2245)  
再生聚酯纤维与无机固化剂改良粉土热学与力学性能相关性研究 ..... 刘路路, 蔡国军, 刘松玉 (2253)  
基于空腔膨胀理论的 TBM 盘形滚刀侵岩载荷模型建模分析及试验验证 ..... 张 魁, 张玉林, 郑学军, 周友行, 乔 硕 (2263)  
钙质结核含量对钙质结核土压缩性缩尺效应影响研究 ..... 梁传扬, 吴跃东, 刘 坚, 刘 辉, 陈大硕, 林来贺 (2272)  
软岩软化的水岩界面动力学模型及其演化规律 ..... 刘 驰, 刘晓丽, 张 东, 吴春璐, 王恩志, 王思敬 (2280)

### 短 文

- 煤系页岩储层多气共采水力裂缝扩展规律试验研究 ..... 王士国, 金 衍, 谭 鹏, 夏 阳 (2290)  
基于 CEL 的灵敏性黏土斜坡渐进破坏数值模拟研究 ..... 沈佳轶, 陈 前, 库 猛, 王立忠 (2297)  
强度指标影响下滑坡运动特征及参数反分析 ..... 张卫杰, 余瑞华, 陈 宇, 高玉峰, 黄 雨 (2304)  
深水含水合物地层钻井口稳定性研究 ..... 王 磊, 杨 进, 李莅临, 胡志强, 柯 珂, 臧艳彬, 孙 挺 (2312)  
基于等效零时刻点的水平层状场地黏弹性边界方法研究 ..... 贾忠明, 赵伯明, 王子珺, 赵天次, 冯 俊 (2319)  
城市内河底泥物理-矿物成分-污染性状关联性试验研究 ..... 王 钢, 吉 锋, 曾玲玲, 崔慧贞 (2327)  
新型导电塑料排水板及其双层水平布置电渗排水效果 ..... 王俊杰, 陈祥彬, 杨 洋, 邱珍锋 (2335)

### 简 讯

- 第三届全国非饱和土与特殊土力学及工程学术研讨会在石家庄成功召开 ..... (2214)  
彩色插图索引 ..... (2262)  
《岩土工程学报》征订启事 ..... (2289)  
2022 年总目录(第 44 卷), 第 1~12 期(总 374~385 期) ..... ( I )  
《岩土工程学报》第十三届编委会名单 ..... (扉页 I )  
征稿简则 ..... (扉页 II )

## CONTENTS

### PAPERS

- Intelligent geotechnical engineering ..... CHEN Xiang-sheng, HONG Cheng-yu, SU Dong (2151)  
Experimental study on embedding amount of rubber film of triaxial specimens of coarse-grained soil .....  
..... ZHU Jun-gao, ZHU Cai-feng, WANG Si-rui (2160)  
Dynamic stability evaluation of submarine slopes with hydrate reservoir under influences of heat injection exploitation .....  
..... NIAN Ting-kai, SONG Xiao-long, ZHANG Hao, RONG Ze (2167)  
Influences of antecedent rainfall and change of reservoir water level on seepage and stability characteristics of earth rock dams  
..... LI Zhuo, FANG Yi-xiang, LU Yang, LIU Kang, ZHANG Yong-gan (2177)  
Analytical solution for dynamic interaction of end-bearing pile groups subjected to vertical dynamic loads .....  
..... ZHENG Chang-jie, CUI Yi-qin, DING Xuan-ming, LUAN Lu-bao (2187)  
Seismic performance assessment of subway station structures considering fuzzy probability of damage states .....  
..... ZHONG Zi-lan, SHI Yue-bo, LI Jin-qiang, ZHAO Mi, DU Xiu-li (2196)  
Adsorption characteristics of As(V) on silty clay ..... JI Yong-xin, ZHANG Wen-jie, HUANG Jin-xiang (2206)  
Experimental study on CPT penetration in layered soil based on transparent soil .....  
..... LU Liang, HE Bing, XIAO Liang, WANG Zong-jian, MA Shu-wen, LIN Hao-xin (2215)  
Optimization method for backfill grouting of shield tunnel based on stratum suitability characteristics .....  
..... YE Fei, XIA Tian-han, YING Kai-chen, LI Yong-jian, LIANG Xiao-ming, HAN Xing-bo (2225)  
Characteristics and method for calculating earth pressure at rest of light weight soil with foamed particles .....  
..... HOU Tian-shun, GUO Peng-fei, YANG Kai-xuan, WANG Qi, LUO Ya-sheng (2234)  
Finite element method for analyzing environmental vibration without apparent sources and its application in Beijing High-Energy  
Photon Source ..... GU Xiao-qiang, YU Kuan-yuan, HUANG Mao-song, LIU Xin, YAN Fang, WU De-shun (2245)  
Correlation between thermal and mechanical properties of recycled polyester fiber and inorganic curing agent-improved silt .....  
..... LIU Lu-lu, CAI Guo-jun, LIU Song-yu (2253)  
Establishment and experimental verification of rock penetration load model for TBM disc cutters based on cavity expansion theory  
..... ZHANG Kui, ZHANG Yu-lin, ZHENG Xue-jun, ZHOU You-hang, QIAO Shuo (2263)  
Influences of calcareous nodule content on scale effects of compressibility of cohesive soil containing calcareous nodules .....  
..... LIANG Chuan-yang, WU Yue-dong, LIU Jian, LIU Hui, CHEN Da-shuo, LIN Lai-he (2272)  
Dynamic model for water-rock interface of softening of soft rock and its evolution law .....  
..... LIU Chi, LIU Xiao-li, ZHANG Dong, WU Chun-lu, WANG En-zhi, WANG Si-jing (2280)

### NOTES

- Experimental investigation on hydraulic fracture propagation of coal shale reservoirs under multi-gas co-production .....  
..... WANG Shi-guo, JIN Yan, TAN Peng, XIA Yang (2290)  
Numerical simulation of progressive failure of sensitive clay slopes using CEL method .....  
..... SHEN Jia-yi, CHEN Qian, KU Meng, WANG Li-zhong (2297)  
Post-failure movement characteristics and parameter back-analysis for landslides considering effect of strength parameters .....  
..... ZHANG Wei-jie, YU Rui-hua, CHEN Yu, GAO Yu-feng, HUANG Yu (2304)  
Wellhead stability in gas hydrate formation during deep-water drilling .....  
..... WANG Lei, YANG Jin, LI Li-lin, HU Zhi-jiang, KE Ke, ZANG Yan-bin, SUN Ting (2312)  
Viscoelastic boundary method of horizontal layered site based on equivalent zero-time point .....  
..... JIA Zhong-ming, ZHAO Bo-ming, WANG Zi-jun, ZHAO Tian-ci, FENG Jun (2319)  
Experimental study on physical-mineral composition-pollution behaviour interrelations of urban river sediments .....  
..... WANG Gang, JI Feng, ZENG Ling-ling, CUI Hui-zhen (2327)  
New conductive plastic drainage board and its electro-osmosis drainage effect under double-layer horizontal layout .....  
..... WAN Jun-jie, CHEN Xiang-bin, YANG Yang, QIU Zhen-feng (2335)  
**NEWS** ..... (2214, 2262, 2289)  
**Contents of Vol.44, No.1~12, 2022 (Total No. 374~385)** ..... ( I )  
**Members of Editorial Board of Chinese Journal of Geotechnical Engineering** ..... (head page I )  
**Invitation for original papers** ..... (head page II )