

目 次

黄文熙讲座

- 从本构模型研究到试验和光纤监测设备研发 殷建华 (1)

论 文

- 地下工程施工模型数字与数值一体化自动建模方法 朱合华, 董文澎, 李晓军, 赵文 (16)
基于突变理论的高拱坝失稳判据研究 郑东健, 雷建 (23)
基于不对称连续排水边界的太沙基一维固结方程及其解答 梅国雄, 夏君, 梅岭 (28)
平面应变条件下非饱和土抗剪强度统一解及应用 张常光, 胡云世, 赵均海 (32)
岩溶区公路路基稳定性的区间模糊评判分析方法 张永杰, 曹文贵, 赵明华, 赵衡 (38)
组合型复合地基固结分析 叶观宝, 张振, 邢皓枫, 黄茂松, 廖红涛 (45)
基于变换应力方法的各向异性模型三维化 王乃东, 姚仰平 (50)
盾构隧道开挖面稳定极限理论研究 吕玺琳, 王浩然, 黄茂松 (57)
不同桩长扩底抗拔桩极限承载力的统一计算模式 黄茂松, 王向军, 吴江斌, 王卫东 (63)
深部巷道围岩分区破裂现象的试验与现场监测对比分析研究 陈旭光, 张强勇, 杨文东, 李术才, 刘德军, 王汉鹏 (70)
长短桩复合地基中的土拱效应及分析 娄炎, 何宁, 娄斌 (77)
基于数字图像技术的砂土液化可视化动三轴试验研究 周健, 史旦达, 吴峰, 薛剑峰 (81)
基于流体时变性的隧道劈裂注浆机理研究 孙锋, 张顶立, 陈铁林 (88)
平面滑动型边坡极限倾角的研究 缪世贤, 陈征宙, 张明瑞, 毕港 (94)
变截面桩基础体系高层建筑结构的地震响应 钱德玲, 李辉, 卢文胜, 李健全, 夏京 (98)
饱和地基中二维填充沟远场被动隔振研究 时刚, 郭院成, 高广运 (104)
关于改进中国规范中土液化判别准则的建议 符圣聪, 江静贝 (112)

短 文

- 干砂盾构开挖面稳定性模型试验研究 陈仁朋, 李君, 陈云敏, 孔令刚 (117)
图像处理技术在分凝冰演化规律研究中的应用 周金生, 周国庆, 张琦, 商翔宇, 周扬 (123)
复合桩基地基极限承载力的下限有限元解 蒋刚, 孙君, 王旭东 (128)
震后暴雨型岩质滑坡启动机理 吴永, 何思明, 罗渝 (135)
利用食盐预防白蚁入侵堤坝的新技术 陈来华, 潘存鸿, 陈森美, 宋晓钢, 郑世宗, 陈式华 (140)
承压水降压引起的上覆土层沉降分析 龚晓南, 张杰 (145)
复杂应力条件下原状饱和海洋黏土孔压与强度特性 柴茂田, 刘功勋, 郭莹, 王忠涛 (150)
拓宽路基差异沉降控制技术模型试验研究 翁效林, 张留俊, 李林涛, 郭永建 (159)

简 讯

- 2011年《岩土工程学报》黄文熙讲座学术报告会通知 (37)
第八届全国工程排水与加固技术研讨会第1号通知: 论文征集 (122)
向审稿人致谢 (134, 149)
本期广告索引 (139)
《岩土工程学报》第十届编委会名单 (扉页 I)
征稿简则 (扉页 II)

CONTENTS

HUANG WEN-XI LECTURE

From constitutive modeling to development of laboratory testing and optical fiber sensor monitoring equipment YIN Jian-hua (1)

PAPERS

Automatic modeling method for digital and numerical integration of underground construction model	ZHU He-hua, DONG Wen-peng, LI Xiao-jun, ZHAO Wen (16)
Instability criteria for high arch dams using catastrophe theory	ZHENG Dong-jian, LEI Ting (23)
Terzaghi's one-dimensional consolidation equation and its solution based on asymmetric continuous drainage boundary	MEI Guo-xiong, XIA Jun, MEI Ling (28)
Unified solution of shear strength for unsaturated soil under plane strain condition and its application	ZHANG Chang-guang, HU Yun-shi, ZHAO Jun-hai (32)
Interval fuzzy judgment method for roadbed stability in karst area	ZHANG Yong-jie, CAO Wen-gui, ZHAO Ming-hua, ZHAO Heng (38)
Consolidation of combined composite foundation	YE Guan-bao, ZHANG Zhen, XING Hao-feng, HUANG Mao-song, CHANG Hong-tao (45)
Generalization of anisotropic constitutive models using transformed stress method	WANG Nai-dong, YAO Yang-ping (50)
Limit theoretical study on face stability of shield tunnels	LÜ Xi-lin, WANG Hao-ran, HUANG Mao-song (57)
Unified approach to estimate ultimate bearing capacity of uplift piles with enlarged base	HUANG Mao-song, WANG Xiang-jun, WU Jiang-bin, WANG Wei-dong (63)
Comparative analyses of model tests and in-situ monitoring of zonal disintegration of rock mass in deep tunnels	CHEN Xu-guang, ZHANG Qiang-yong, YANG Wen-dong, LI Shu-cai, LIU De-jun, WANG Han-peng (70)
Analysis of soil arching of composite foundations with long and short piles	LOU Yan, HE Ning, LOU Bin (77)
Visualized cyclic triaxial tests on sand liquefaction using digital imaging technique	ZHOU Jian, SHI Dan-da, WU Feng, XUE Jian-feng (81)
Fracture grouting mechanism in tunnels based on time-dependent behaviors of grout	SUN Feng, ZHANG Ding-li, CHEN Tie-lin (88)
Study and analysis of critical inclination slope with planar failure surface	MIAO Shi-xian, CHEN Zheng-zhou, ZHANG Ming-rui, BI Gang (94)
Seismic response of high-rise structures by different foundation systems	QIAN De-ling, LI Hui, LU Wen-sheng, LI Jian-quan, XIA Jing (98)
Two-dimensional analysis of in-filled trenches as passive barriers in saturated soil	SHI Gang, GUO Yuan-cheng, GAO Guang-yun (104)
Suggestions for improving criteria of soil liquefaction in China's code	FU Sheng-cong, JIANG Jing-bei (112)
NOTES	
Large-scale tests on face stability of shield tunnelling in dry cohesionless soil	CHEN Ren-peng, LI Jun, CHEN Yun-min, KONG Ling-gang (117)
Application of image processing in researches on evolving rules of segregation ice	ZHOU Jin-sheng, ZHOU Guo-qing, ZHANG Qi, SHANG Xiang-yu, ZHOU Yang (123)
Finite element lower bound limit solutions for ultimate bearing capacity of subsoil under raft of composite piled foundations	JIANG Gang, SUN Jun, WANG Xu-dong (128)
Failure mechanism of post-earthquake rock landslide under rainfall	WU Yong, HE Si-ming, LUO Yu (135)
New technology of using salt to prevent termites for dikes and dams	CHEN Lai-hua, PAN Cun-hong, CHEN Sen-me, SONG Xiao-gang, ZHENG Shi-zong, CHEN Shi-hua (140)
Settlement of overlaying soil caused by decompression of confined water	GONG Xiao-nan, ZHANG Jie (145)
Characteristics of pore water pressure and strength of undisturbed saturated marine clay under complex stress conditions	LUAN Mao-tian, LIU Gong-xun, GUO Ying, WANG Zhong-tao (150)
Model tests on control techniques for differential settlement of road widening	WENG Xiao-lin, ZHANG Liu-jun, LI lin-tao, GUO Yong-jian(159)
NEWS	(37, 122, 134, 139, 149)
Members of Editorial Board of Chinese Journal of Geotechnical Engineering	(head page I)
Invitation for original papers	(head page II)