

长安大学 主办

ISSN 1673-2049
CN 61-1442/TU
CODEN JKYGA3

建筑科学与工程学报

JOURNAL OF ARCHITECTURE AND
CIVIL ENGINEERING

第38卷 2021
第6期

ISSN 1673-2049



Vol. 38 No. 6
中国·西安

万方数据

目 次

• 软土地基加固与基础工程 •

软土地基超长桩静载试验中桩侧堆载影响分析	曹文昭,杨志银,蔡巧灵,高 磊(1)
软土桩基上拓宽路堤的变形破坏离心模型试验	陈达章,陈天翼,牟太平,张 嘎(11)
吹填区软土真空预压加固效果对比测试分析	汪中卫(18)
基于美国标准的桩基竖向承载力计算分析	霍知亮,孙立强,郎瑞卿,于长一,牛增祥(25)
复掺非等长玄武岩纤维的水泥土抗拉特性分析	沈 晨,章定文,张国龙,宋 涛,徐慧敏(33)
影响黏土 3D 打印性能的主要参数研究	朱 旻,苏 栋,杨伟鸿,黄俊杰,李 强(40)

• 软土基坑设计与变形控制 •

基坑混凝土支撑轴力监测值修正方法	徐昭辰,王 强,章定文,朱湘旭,王治宇(48)
上海地区不同强度参数对基坑围护结构变形和内力的影响	何 平,王卫东,徐中华,王 强(55)
基于 HSS 模型的上海地铁深基坑开挖变形分析	吴瑞拓,顾晓强,高广运,樊 烽,张 科(64)
软土深基坑被动区超前加固变形控制效果研究	于至海,吴旭君,曹文昭(71)
深基坑开挖与周边既有建筑物改造相互影响研究	颜 超,孙廉威,程子聪(80)
软土地区基坑坑底隆起稳定破坏滑动半径研究	程雪松,甄 洁,郑 刚,王志勇,王 哲,宋许根(90)
软土地区地连墙与回灌井相互影响研究	仲志武(98)
南京江北新区相邻深浅基坑开挖时序优化研究	陶 勇,吕所章,杨 平,张 婷,王晓觅(108)
复杂环境下某体育建筑深大基坑分区设计与实践	侯胜男,岳建勇,周 延(119)
软土地区紧邻地铁隧道深基坑支护设计与实践	李煜峰,傅 怡,徐中华(128)

• 软土隧道施工与变形控制 •

注浆纠偏隧道水平位移的数值模拟	董敏忠(138)
三圆盾构施工复杂地铁换乘车站模拟分析	郭海柱,白 哲(147)
滨海软土地层浅埋超大直径盾构隧道开挖面破坏机理及加固范围研究	宋棋龙,祁文睿,李文静,张新建,苏 栋,林星涛(155)
加固厚度对软土地层大直径盾构隧道抗浮的影响	谭毅俊,彭元栋,刘 爽,苏 栋,雷国平(163)
软土地层并行曲线隧道施工顺序对既有隧道的影响	邓 碧,张俊伟,诸葛绪松,刘文献,林星涛,苏 栋,陈湘生(170)
考虑中间主应力的非饱和土上埋式涵洞竖向土压力公式	张常光,吴 凯,李宗辉,关港辉(177)
单斜构造软硬互层围岩隧道变形特征及控制对策	张立鑫,陈丽俊,陈建勋,王智佼,王治才,刘伟伟(186)
南宁某地铁隧道风井围护结构设计优化与评价	康亚乐(197)
《建筑科学与工程学报》2021 年(第 38 卷)总目次	(204-1)

CONTENTS

• Soft Soil Foundation Reinforcement and Foundation Engineering •

Effect of Surrounding Load on Static Load Test of Super-long Pile in Soft Soil Foundation

..... CAO Wen-zhao, YANG Zhi-yin, CAI Qiao-ling, GAO Lei(1)

Centrifugal Modeling Test on Deformation and Failure Behavior of Widening Embankment on Soft Soil with Pile Foundation

..... CHEN Da-zhang, CHEN Tian-yi, MOU Tai-ping, ZHANG Ga(11)

Comparative Test Analysis of Vacuum Preloading Reinforcement Effect on Soft Ground in Hydraulic Reclamation Area

..... WANG Zhong-wei(18)

Analysis of Vertical Bearing Capacity of Pile Foundation Based on American Standard

..... HUO Zhi-liang, SUN Li-qiang, LANG Rui-qing, YU Chang-yi, NIU Zeng-xiang(25)

Analysis on Tensile Properties of Cemented Soil Compounded with Unequal Length Mixed Basalt Fiber

..... SHEN Chen, ZHANG Ding-wen, ZHANG Guo-long, SONG Tao, XU Hui-min(33)

Study on Main Parameters Affecting 3D Printing Performance of Clay

..... ZHU Min, SU Dong, YANG Wei-hong, HUANG Jun-jie, LI Qiang(40)

• Soft Soil Foundation Pit Design and Deformation Control •

Correction Method of Axial Force Monitoring Value of Concrete Strut in Excavation

..... XU Zhao-chen, WANG Qiang, ZHANG Ding-wen, ZHU Xiang-xu, WANG Zhi-yu(48)

Influence of Different Strength Parameters on Deformation and Internal Force of Retaining Structures in Shanghai

..... HE Ping, WANG Wei-dong, XU Zhong-hua, WANG Qiang(55)

Analysis of Deep Excavation Deformation of Shanghai Metro Station Using HSS Model

..... WU Rui-tuo, GU Xiao-qiang, GAO Guang-yun, FAN Feng, ZHANG Ke(64)

Research on Deformation Control Effect of Passive Zone Reinforcement Before Excavation of Deep Foundation Pit in Soft Soil

..... YU Zhi-hai, WU Xu-jun, CAO Wen-zhao(71)

Study on Interaction Between Deep Foundation Pit Excavation and Reconstruction of Surrounding Existing Buildings

..... YAN Chao, SUN Lian-wei, CHENG Zi-cong(80)

Research on Sliding Radius of Basal Heave Failure of Excavation in Soft Soil Area

..... CHENG Xue-song, ZHEN Jie, ZHENG Gang, WANG Zhi-yong, WANG Zhe, SONG Xu-Gen(90)

Research on Interaction Between Diaphragm Wall and Recharge Well in Soft Soil Area

..... ZHONG Zhi-wu(98)

Study on Excavation Time Sequence Optimization of Adjacent Deep and Shallow Foundation Pits in Jiangbei New District of Nanjing

..... TAO Yong, LYU Suo-zhang, YANG Ping, ZHANG Ting, WANG Xiao-mi(108)

Design and Practice of Partitioning of Deep Large Foundation Pits Under Complex Environment Conditions

..... HOU Sheng-nan, YUE Jian-yong, ZHOU Yan(119)

Supporting Design and Application of Deep Excavation Adjacent to Metro Tunnels in Soft Soil Area

..... LI Yu-feng, FU Yi, XU Zhong-hua(128)

• Soft Soil Tunnel Construction and Deformation Control •

Numerical Simulation on Horizontal Deformation Control of Tunnel by Grouting

..... DONG Min-zhong(138)

Numerical Simulation Analysis of Interchange Metro Station Construction by Triple Circle Shield Method Under Complex Condition

..... GUO Hai-zhu, BAI Zhe(147)

Study on Failure Mechanism of Excavation Face and Reinforcement Range of Shallow-buried Super Large Diameter Shield Tunnel in

Coastal Soft Soil Stratum SONG Qi-long, QI Wen-rui, LI Wen-jing, ZHANG Xin-jian, SU Dong, LIN Xing-tao(155)

Influence of Reinforcement Thickness on Anti-floating of Large-diameter Shield Tunnel in Soft Soil Stratum

..... TAN Yi-jun, PENG Yuan-dong, LIU Shuang, SU Dong, LEI Guo-ping(163)

Influence of Construction Sequence of Parallel Curved Tunnels on Existing Tunnels in Soft Soil Stratum

..... DENG Bi, ZHANG Jun-wei, ZHUGE Xu-song, LIU Wen-xian, LIN Xing-tao, SU Dong, CHEN Xiang-sheng(170)

Formulation of Vertical Earth Pressure Against Positive Buried Culvert in Unsaturated Soils Considering Intermediate Principal Stress

..... ZHANG Chang-guang, WU Kai, LI Zong-hui, GUAN Gang-hui(177)

Deformation Characteristics and Treatment Measures of Tunnels in Soft and Hard Interbedded Surrounding Rock with Tilted Stratum

..... ZHANG Li-xin, CHEN Li-jun, CHEN Jian-xun, WANG Zhi-jiao, WANG Zhi-cai, LIU Wei-wei(186)

Design Optimization and Evaluation of Air Shaft Enclosure Structure of a Subway Tunnel in Nanning

..... KANG Ya-le(197)

Total Contents of Volume 38 of *Journal of Architecture and Civil Engineering* in 2021 (204-5)