

目次

· 路基加固与长期性能保持技术专栏 ·

路基湿度测量方法、演化规律及调控技术研究进展

..... 崔新壮,张小宁,王艺霖,曾浩,高上,曹天才,吕伟,韩柏林(1)

循环荷载下路基黏土永久变形特性及力学模型..... 张军辉,张安顺,彭俊辉,胡惠仁(34)

碳化复合桩透水混凝土-MgO 固化土界面摩擦特性试验

..... 张超哲,刘宜昭,刘松玉,张莹,江臣,陈光伟(46)

不同含水率下残积土-织物界面动力剪切特性研究..... 刘飞禹,何江荟,曾威翔(57)

循环荷载下筋材对桩承式低路堤荷载传递机制的影响试验..... 徐传堡,贾亚飞,郑俊杰,郑焯炜(66)

地震及降雨作用下路堤边坡变形破坏特性研究..... 徐佳伟,蒋玮(76)

膨胀土路堑边坡柔性加固方法及现场监测..... 张锐,凌时光,郑健龙,周豫,王欢(87)

黄土边坡典型护坡植被的根系加固力学效应演化分析

..... 包含,敖新林,高月升,兰恒星,郭冠森,郑涵(98)

聚醚胺-230 处治膨胀土的膨胀-压缩-收缩试验

..... 邱煜,卢正,颜廷舟,李剑,丁新胜,胡海翔,姚海林(111)

生物胶-纤维固化黄土的三轴剪切特性研究..... 贾卓龙,晏长根,包含,杨晓华,石玉玲,李怀鑫(122)

软土中 XCC 刚性桩复合地基承载特性时效性研究..... 周航,亓戈平,陈荣淋(132)

考虑颗粒破碎影响的隧道岩渣循环动载累积变形特性试验

..... 谢志伟,马一跃,张艳,徐柯锋,杨峰,吕玺琳(144)

红黏土裂隙湿化自愈行为及强度影响机制..... 高乾丰,吴昕阳,曾铃,余慧聪,余涵(157)

湿化作用下高速公路红黏土路基动力特性现场试验..... 冯学茂,黄轩嘉,刘维正,滕继东,谢治(169)

矿渣-白泥固化黄土的力学性能与微观机理..... 薛志佳,罗江,晏长根,张营,张英立,贾小龙(181)

CFB 灰-钢渣粉-矿渣-脱硫石膏全固废公路下伏采空区注浆材料特性研究

..... 肖杰,刘财壮,刘志勇,何建刚,常锦,张红日(193)

毛细屏障在黄土路基干裂防控中的应用及设计参数影响分析

..... 黄沛,张亚国,杨西京,高引龙,王幼博(207)

淤泥质钻渣土碳化造粒方法及强度增长机理试验..... 曹志刚,申昆鹏,毛天学,肖力,庄峻淇(217)

浮泥-流泥路基中防淤堵排水板排水行为..... 鲍树峰,董志良,莫海鸿,张劲文,江学良,刘攀,罗晓晓(228)

· 绿色城市公交系统关键技术专栏 ·

公交车生态车速引导与信号优先协同优化模型..... 王雅薇,李欣,胡家华(240)

多车型混编公交车队发车时刻及车型联合优化..... 王晓伟,吴松屿,曹恺,杨彦鼎,李洋(253)

大客流干扰下多层公交-地铁网络的韧性评估..... 马壮林,程会媛,邵逸恒,刘悦,程泽农,马飞(267)

考虑个体偏好异质性的定制公交选择行为..... 刘锴,王静,王江波,冯涛,侯悦(279)

接驳地铁的共享自动驾驶汽车动态合乘匹配研究..... 霍月英,张越,李晓娟,陈国庆(288)

· 路面工程 ·

基于网联车辆数据融合的路面平整度评估方法..... 杜昭,张文榕,朱兴一(302)

PPA 复合改性对沥青-集料黏附及其水稳定性影响研究

..... 周育名,张凯,郭云龙,岳浩,王迪,彭竹仪,刘朝晖,魏建国(317)

CONTENTS

• Special Column on Subgrade Reinforcement and Long-term Performance Maintenance Technology •

State-of-the-art Review on Measurement Methods, Evolution Laws, and Control Technologies of Subgrade Moisture Field CUI Xin-zhuang, ZHANG Xiao-ning, WANG Yi-lin, ZENG Hao, GAO Shang, CAO Tian-cai, LYU Wei, HAN Bo-lin(1)

Characterization and Mechanics Modeling of Permanent Deformation of Subgrade Clay Under Cyclic Loading ZHANG Jun-hui, ZHANG An-shun, PENG Jun-hui, HU Hui-ren(34)

Experiment on Interface Shear Properties of Previous Concrete-MgO Stabilized Soils of MgO-carbonated Composite Piles ZHANG Chao-zhe, LIU Yi-zhao, LIU Song-yu, ZHANG Ying, JIANG Chen, CHEN Guang-wei(46)

Dynamic Shear Characteristics of Residual Soil-geotextile Interface Under Different Water Contents LIU Fei-yu, HE Jiang-hui, ZENG Wei-xiang(57)

Effect of Geosynthetic Reinforcements on Load Transfer Mechanism of Pile-supported Low Embankments Under Cyclic Loading XU Chuan-bao, JIA Ya-fei, ZHENG Jun-jie, ZHENG Ye-wei(66)

Deformation and Failure Characteristics of Embankment Subjected to Earthquake and Rainfall XU Jia-wei, JIANG Wei(76)

Flexible Reinforcement Method and Field Monitoring of Expansive Soil Cutting Slope ZHANG Rui, LING Shi-guang, ZHENG Jian-long, ZHOU Yu, WANG Huan(87)

Evolution Analysis of Root Reinforcement Mechanical Effect of Typical Plant Protection on Loess Slope BAO Han, AO Xin-lin, GAO Yue-sheng, LAN Heng-xing, GUO Guan-miao, ZHENG Han(98)

Experimental Study on Swelling-compression-shrinkage Behavior of Expansive Soil Treated with Polyetheramine QIU Yu, LU Zheng, YAN Ting-zhou, LI Jian, DING Xin-sheng, HU Hai-xiang, YAO Hai-lin(111)

Triaxial Shear Characteristics of Biological Gum-fiber-reinforced Loess JIA Zhuo-long, YAN Chang-gen, BAO Han, YANG Xiao-hua, SHI Yu-ling, LI Huai-xin(122)

Study on Time Effect of Bearing Characteristics of XCC Rigid Pile Composite Foundation in Soft Soil ZHOU Hang, QI Ge-ping, CHEN Rong-lin(132)

Experimental Study on Accumulative Deformation Characteristics of Tunnel Slag Under Cyclic Dynamic Loading Considering Particle Breakage Effect XIE Zhi-wei, MA Yi-yue, ZHANG Yan, XU Ke-feng, YANG Feng, LYU Xi-lin(144)

Mechanisms Behind Wetting Self-healing Behavior and Its Influence on the Strength of Lateritic Soil GAO Qian-feng, WU Xin-yang, ZENG Ling, YU Hui-cong, YU Han(157)

Field Test Study on Dynamic Characteristics of Lateritic Soil Expressway Subgrade Under Wetting Action FENG Xue-mao, HUANG Xuan-jia, LIU Wei-zheng, TENG Ji-dong, XIE Zhi(169)

Mechanical Properties and Microscopic Mechanism of Slag-white Mud Solidified Loess XUE Zhi-jia, LUO Jiang, YAN Chang-gen, ZHANG Ying, ZHANG Ying-li, JIA Xiao-long(181)

Research on Characteristics of Solid Waste Grouting Material of CFB Ash-steel Slag Powder-blast Furnace Slag for Goaf Underlying Highway XIAO Jie, LIU Cai-zhuang, LIU Zhi-yong, HE Jian-gang, CHANG Jin, ZHANG Hong-ri(193)

Use of Capillary Barrier to Prevent Loess Subgrade Desiccation and Its Design Parameters HUANG Pei, ZHANG Ya-guo, YANG Xi-jing, GAO Yin-long, WANG You-bo(207)

Experimental Research on the Carbonation Granulation Method for Silty Drilling Residue and Its Strength Growth Mechanism CAO Zhi-gang, SHEN Kun-peng, MAO Tian-xue, XIAO Li, ZHUANG Jun-qi(217)

Draining Behaviors of Anti-clogging PVD in Suspended and Fluid-mud Roadbeds BAO Shu-feng, DONG Zhi-liang, MO Hai-hong, ZHANG Jin-wen, JIANG Xue-liang, LIU Pan, LUO Xiao-xiao(228)

• Special Column on Key Technologies for Green Urban Public Transport Systems •

Collaborative Optimization Model for Bus Eco-speed Guidance and Transit Signal Priority Strategy ... WANG Ya-wei, LI Xin, HU Jia-hua(240)

Joint Optimization of Departure Times and Vehicle Types for a Multi-type Bus Fleet WANG Xiao-wei, WU Song-yu, CAO Kai, YANG Yan-ding, LI Yang(253)

Resilience Assessment of Multilayer Bus-metro Network Under Large Passenger Flow Interference MA Zhuang-lin, CHENG Hui-yuan, SHAO Yi-heng, LIU Yue, CHENG Ze-nong, MA Fei(267)

Study on Customized Bus Choice Behavior Considering Individual Preference Heterogeneity LIU Kai, WANG Jing, WANG Jiang-bo, FENG Tao, HOU Yue(279)

Dynamic Ridesharing Matching of Shared Autonomous Vehicles as Connection to Metro HUO Yue-ying, ZHANG Yue, LI Xiao-juan, CHEN Guo-qing(288)

• Pavement Engineering •

Road Roughness Assessment Based on Fusion of Connected-vehicles Data DU Zhao, ZHANG Wen-rong, ZHU Xing-yi(302)

Effect of PPA Composite Modification on Asphalt-aggregate Adhesion and Water Stability ZHOU Yu-ming, ZHANG Kai, GUO Yun-long, YUE Hao, WANG Di, PENG Zhu-yi, LIU Zhao-hui, WEI Jian-guo(317)