

目次

· 综述 ·

- 黄土边坡坡面防护技术综述 晏长根,梁哲瑞,贾卓龙,兰恒星,石玉玲,杨万里 (1)
公路建养装备数字孪生技术综述 惠记庄,张泽宇,叶敏,顾海荣,张浩博,段雨 (23)

· 道路与铁道工程 ·

- 柔性路面结构设计的动力安定下限理论与分析方法 钱建固,戴浴晨 (45)
高海拔多年冻土区砂石路面公路的路基温度场特征
..... 包卫星,刘亚伦,毛雪松,李伟,秦川,郭强,陈锐 (60)
水位抬升对高速铁路基动力响应与长期沉降的影响 胡静,唐跃,张家康,蒋红光,边学成,邓涛 (75)
水泥粉煤灰处理湿陷性黄土路基承载性能 邓友生,李龙,孙雅妮,姚志刚,孟丽青 (92)
基于干湿循环试验的黄土路堑浅层边坡长期稳定性分析
..... 石玉玲,常洲,安宁,晏长根,兰恒星,杨万里(104)
降水入渗条件下氯盐渍土水盐迁移规律 张留俊,裘友强,张发如,李雄飞,刘军勇(116)
地聚合物固化含黏风积沙土-水特征曲线 陈锐,陈海,包卫星,来弘鹏(128)
干湿循环作用下充填节理岩石压缩特性 柴少波,宋浪,刘欢,阿比尔的,刘帅(142)
钻孔原位剪切测试系统设计
..... 刘鑫,兰恒星,晏长根,董忠红,包涵,伍宇明,张帆宇,祝艳波,张军(154)
软弱破碎地层隧道半椭球体松散荷载计算方法 韩鑫,叶飞,刘畅,韩兴博,贾艳领,王东方(165)
浅埋隧道开挖引起地层位移的双极坐标求解法 来弘鹏,姚毅,高强,刘禹阳(178)
隧道施工引起的松砂土层与地表结构响应
..... 徐敬民,徐成华,施焯辉,章定文,徐涛,胥稳,程荷兰(190)
漂卵石隧道支护体系受力变形特性 昝文博,赖金星,曹校勇,冯志华,邱军领,张文接(205)
隧道衬砌背后脱空识别的改进瞬变电磁雷达法 耿庆桥,贾元华,叶英,王登科(218)
严寒条件下地铁车站基坑受力与变形特性 杨晓华,蔡世春,何少华,邵莹,晏长根(233)
土压平衡盾构施工模块化分步缩尺模型试验设计与应用
..... 黄大维,徐长节,罗文俊,姜浩,刘家璇,李庆(248)
基于路面加速加载的沥青路面疲劳损伤预估模型标定方法 韩振强,胡力群,沙爱民(258)

CONTENTS

• Review •

Review on surface protection technologies of loess slope

..... YAN Chang-gen, LIANG Zhe-rui, JIA Zhuo-long, LAN Heng-xing, SHI Yu-ling, YANG Wan-li (1)

Review on digital twin technology for highway construction and maintenance equipment

..... HUI Ji-zhuang, ZHANG Ze-yu, YE Min, GU Hai-rong, ZHANG Hao-bo, DUAN Yu (23)

• Road and railway engineering •

Theory and analysis method of lower-bound dynamic shakedown for design of flexible pavement structure

..... QIAN Jian-gu, DAI Yu-chen (45)

Characteristics of subgrade temperature field of gravel road in high altitude permafrost region

..... BAO Wei-xing, LIU Ya-lun, MAO Xue-song, LI Wei, QIN Chuan, GUO Qiang, CHEN Rui (60)

Influences of water level rise on dynamic responses and long-term settlement of high-speed railway subgrade

..... HU Jing, TANG Yue, ZHANG Jia-kang, JIANG Hong-guang, BIAN Xue-cheng, DENG Tao (75)

Bearing capability of collapsible loess subgrade through cement-fly ash treatment

..... DENG You-sheng, LI Long, SUN Ya-ni, YAO Zhi-gang, MENG Li-qing (92)

Long-term stability analysis of loess cutting shallow slope based on wet-dry cycle test

..... SHI Yu-ling, CHANG Zhou, AN Ning, YAN Chang-gen, LAN Heng-xing, YANG Wang-li (104)

Water-salt migration rules in chlorine saline soil under precipitation infiltration

..... ZHANG Liu-jun, QIU You-qiang, ZHANG Fa-ru, LI Xiong-fei, LIU Jun-yong (116)

Soil-water characteristic curve of geopolymer stabilized aeolian sand with clay

..... CHEN Rui, CHEN Hai, BAO Wei-xing, LAI Hong-peng (128)

Compression characteristics of filled jointed rock under dry-wet cycles

..... CHAI Shao-bo, SONG Lang, LIU Huan, ABI Erdi, LIU Shuai (142)

Design of borehole in-situ shear test system

..... LIU Xin, LAN Heng-xing, YAN Chang-gen, DONG Zhong-hong, BAO Han, WU Yu-ming, ZHANG Fan-yu, ZHU Yan-bo, ZHANG Jun (154)

Calculation method of semi-ellipsoid loose load on tunnel in weak and fragmented stratum

..... HAN Xin, YE Fei, LIU Chang, HAN Xing-bo, JIA Yan-ling, WANG Dong-fang (165)

Bipolar coordinate solving method for ground displacement caused by shallow tunnel excavation

..... LAI Hong-peng, YAO Yi, GAO Qiang, LIU Yu-yang (178)

Responses of loose sand ground and surface structure caused by tunnel construction

..... XU Jing-min, XU Cheng-hua, SHI Ye-hui, ZHANG Ding-wen, XU Tao, XU Wen, CHENG He-lan (190)

Mechanical deformation characteristics of support system for boulder-cobble tunnel

..... ZAN Wen-bo, LAI Jin-xing, CAO Xiao-yong, FENG Zhi-hua, QIU Jun-ling, ZHANG Wen-jie (205)

Improved transient electromagnetic radar method of void identification behind tunnel lining

..... GENG Qing-qiao, JIA Yuan-hua, YE Ying, WANG Deng-ke (218)

Force and deformation characteristics of subway station foundation pit under severe cold conditions

..... YANG Xiao-hua, CAI Shi-chun, HE Shao-hua, SHAO Ying, YAN Chang-gen (233)

Design and application of modular step-by-step scale model test for earth pressure balance shield construction

..... HUANG Da-wei, XU Chang-jie, LUO Wen-jun, JIANG Hao, LIU Jia-xuan, LI Qing (248)

Calibration method of asphalt pavement fatigue damage prediction model based on accelerated pavement test

..... HAN Zhen-qiang, HU Li-qun, SHA Ai-min (258)