

目次

综 述

钢桥大气腐蚀微环境与长寿基因..... 刘永健,陈 莎,王 壮(1)
缓凝剂对碱激发材料性能影响的研究进展 谢建和,李丽明,黄俊健,冯 源,张佰发(20)

建筑材料

超高性能混凝土保护层厚度取值分析 徐 港,文长城,王 青,鲍 浩,汪胜巍(32)
多级循环加卸载混凝土损伤特征及声学研究 邱璐璐,刘晓斐,周 鑫,王笑然,张思清(43)

建筑结构

氯盐与重复荷载共同作用下海工混凝土梁受弯性能退化分析..... 陆春华,宋泽鹏,李锺奥,张菊连(52)
采用高性能水泥基黏结剂的钢-UHPC 组合板界面剪切性能试验研究 胡文旭,李 聪,陈宝春(60)
新型部分填充工字钢组合梁受剪性能试验研究 辛 力,刘 源,姚怡帆,黄 华,高 悦(69)
内置钢骨的方形不锈钢管超高性能混凝土短柱轴压力学性能..... 程 展,李俊华,刘子丹,杜国锋(78)
混凝土植筋梁双筋间距对锚固性能的影响..... 阎西康,贾云飞,梁琳霄,刁然治,王士达,谢函霖(89)
波纹管穿孔柱轴压性能和滞回性能数值模拟 杨 博,张亚飞,卢 旦,杨英武,梁诗雪(99)
高应力反复拉压作用下钢板组合单边螺栓钢筋机械连接性能试验研究
..... 段留省,张化兵,丁涛涛,周友利,吴 楠,潘 宏,夏明干,李 慧(108)
考虑弯曲应力占比的矩形钢管 K 型节点疲劳评估
..... 赵 瑞,刘永健,姜 磊,傅一晟,赵亚东,赵鑫东(119)

桥梁工程

基于模态参数识别的简支梁桥模态挠度预测试验研究 亓兴军,孙绪法,王珊珊,曹三鹏(129)
中空夹层预制装配式圆形桥墩抗震性能参数分析 孟凌霄,孙中华,朱志鑫,许英东,张传平,付 涛(138)

隧道工程

不同大变形等级层状软岩隧道施工关键技术研究
..... 潘文韬,吴枋胤,杨文波,寇 昊,徐 迪,孟海龙,何 川,王 飞(148)
隧道穿越不同形态断层破碎带围岩稳定性分析 韩瑀莹,江腾飞,谭碧舫,谢 远,赖金星,邱军领(162)

岩土工程

深基坑开挖与内支撑调节对邻近沉井影响规律试验研究..... 邓 彬,张 磊,郑鹏鹏,陈保国,邹顺清(174)
MJS 不同加固方式对降低顶管施工影响的效果分析 张双茁,高桂庆,赖金星,张健伟,邱军领(183)
阶梯型管廊非一致地震激励下的减震措施研究 赵晓斌,任 青,杨 涛,邓海明(192)
桩底复合式后注浆灌注桩的竖向承载特性研究..... 张晓华,王 旭,周亚龙,张延杰,蒋代军(206)

建筑学与城市规划

模块式屋顶绿化热工性能模拟及排布优化 骆天庆,周婷慧,刘 东,杨胜维(216)

CONTENTS

Review

- Atmospheric corrosion micro-environment and longevity genes of steel bridges LIU Yongjian, CHEN Sha, WANG Zhuang(1)
 State-of-the-art review on influence of retarders on performance of alkali-activated materials
 XIE Jianhe, LI Liming, HUANG Junjian, FENG Yuan, ZHANG Baifa(20)

Building material

- Value analysis of UHPC cover thickness XU Gang, WEN Changcheng, WANG Qing, BAO Hao, WANG Shengwei(32)
 Research on damage characteristics and acoustics of concrete under multi-stage cyclic loading and unloading
 QIU Lulu, LIU Xiaofei, ZHOU Xin, WANG Xiaoran, ZHANG Siqing(43)

Building structure

- Degradation analysis of flexural performance of marine concrete beams under combined action of chloride and repeated load
 LU Chunhua, SONG Zepeng, LI Zhongao, ZHANG Julian(52)
 Experimental study on interface shear performance of steel-UHPC composite plate using high performance cement-based adhesive
 HU Wenxu, LI Cong, CHEN Baochun(60)
 Experimental study on shear behavior of new partially encased I-steel composite beams
 XIN Li, LIU Yuan, YAO Yifan, HUANG Hua, GAO Yue(69)
 Axial compressive performance of steel reinforced ultra-high performance concrete filled square stainless steel tube
 CHENG Zhan, LI Junhua, LIU Zidan, DU Guofeng(78)
 Influence of double bar spacing on anchorage performance of concrete planting bar beams
 YAN Xikang, JIA Yunfei, LIANG Linxiao, DIAO Ranzhi, WANG Shida, XIE Hanlin(89)
 Numerical simulation of axial compression and hysteretic behavior of corrugated pipe through-hole column
 YANG Bo, ZHANG Yafei, LU Dan, YANG Yingwu, LIANG Shixue(99)
 Experimental study on rebar mechanical connection performance of steel plate composite blind bolts under high stress repeated
 tension-compression load DUAN Liusheng, ZHANG Huabing, DING Taotao, ZHOU Youli, WU Nan, PAN Hong, XIA Minggan, LI Hui(108)
 Fatigue assessment of rectangular hollow section K-joints due to degree of bending
 ZHAO Rui, LIU Yongjian, JIANG Lei, FU Yisheng, ZHAO Yadong, ZHAO Xindong(119)

Bridge engineering

- Experimental research on modal deflection prediction of simply supported girder bridge based on modal parameter identification
 QI Xingjun, SUN Xufa, WANG Shanshan, CAO Sanpeng(129)
 Parameters analysis of seismic performance of prefabricated circular pier with hollow interlayer
 MENG Lingxiao, SUN Zhonghua, ZHU Zhixin, XU Yingdong, ZHANG Chuanping, FU Tao(138)

Tunnel engineering

- Research on key construction technology of layered soft rock tunnel under different large deformation grades
 PAN Wentao, WU Fangyin, YANG Wenbo, KOU Hao, XU Di, MENG Hailong, HE Chuan, WANG Fei(148)
 Stability analysis of surrounding rock of tunnel passing through different fault fracture zones
 HAN Yuxuan, JIANG Tengfei, TAN Bige, XIE Yuan, LAI Jinxing, QIU Junling(162)

Geotechnical engineering

- Experimental study on influence of deep foundation pit excavation and inner support adjustment on adjacent open caisson
 DENG Bin, ZHANG Lei, ZHENG Pengpeng, CHEN Baoguo, ZOU Shunqing(174)
 Analysis of effect of different reinforcement methods of MJS on reducing impact of pipe jacking construction
 ZHANG Shuangzhuo, GAO Guiqing, LAI Jinxing, ZHANG Jianwei, QIU Junling(183)
 Study on shock absorption measures of stepped pipe gallery under non-uniform earthquake excitation
 ZHAO Xiaobin, REN Qing, YANG Tao, DENG Haiming(192)
 Study on vertical bearing characteristics of composite post grouting cast-in-place pile at pile bottom
 ZHANG Xiaohua, WANG Xu, ZHOU Yalong, ZHANG Yanjie, JIANG Daijun(206)

Architecture and urban planning

- Thermal performance simulation and optimal layout of modular green roof
 LUO Tianqing, ZHOU Tinghui, LIU Dong, YANG Shengwei(216)