



铁道科学与工程学报

Journal of Railway Science and Engineering



目 次

高速铁路技术与智慧交通

高速铁路大跨度混凝土斜拉桥设计研究.....	龚俊虎(1611)
高速列车 U 型橡胶外风挡结构模态有限元计算与试验分析.....	蔡鉴明, 张森, 汪海燕, 熊小慧, 唐明赞(1620)
基于混合方法的风速预测模型研究.....	张如九, 严磊, 何旭辉, 李睿东, 孙颖(1630)
热备动车组配置方案优化模型.....	徐禾颖, 彭小倩, 倪少权, 杨晓军, 张杰(1637)
基于工程易损性灾变论的高铁路基服役状态评价.....	陈舒阳, 曹禄来, 姚永胜(1645)
基于 ARIMA 模型的高铁浮动票价与票额分配优化方法.....	姚加林, 皮珊(1655)

轨道与基础

地铁预制板式无砟轨道空间力学特性研究.....	刘耀强, 徐庆元(1662)
多尺度效应作用下风沙区铁路道床动力响应分析.....	张智海, 肖宏, 冯瑞玲, 崔旭浩(1671)
境外铁路路基软岩边坡整治实例分析.....	尹进, 聂如松, 唐晓冬, 刘正强, 龚申, 陈飞(1679)
新建铁路大临线临沧站站场路基沉降评估分析.....	王子昂, 王武斌, 苏谦, 付伟庆, 吴浩, 肖玉林(1688)
真空-堆载预压联合管桩-土工格室在堆场深厚软基处理中的应用.....	陈维家, 刘维正, 林震宇(1699)
基于 AHP-Fuzzy 的营运高速公路深厚软基病害处治技术适用性评价方法	顾绍付, 刘维正, 徐林荣, 石志国(1710)
深基坑 h 型双排桩的变形计算及优化分析.....	罗忠行, 牛建东, 李泽玮, 李姝, 王克宏(1720)
湛江大道 2 种高液限土水泥改良试验研究.....	莫秋旭, 陈家闯, 许会生, 黄毅, 姜平(1728)
玄武岩纤维加筋粉质黏土的静动力学特性试验研究.....	柳涛(1734)

桥梁隧道与结构

- 地震作用下超高墩三塔大跨斜拉桥结构体系比选研究.....徐向东,魏标,马白虎,杜镔,刘兴茂(1743)
- 基于实测数据的混凝土曲线梁桥温差代表值研究.....孙增寿,夏云飞,韩培琰(1751)
- 跨长江特大桥拉索涡激振动与风特性观测.....刘宗杰,祝志文,陈魏,陈政清(1760)
- 基于双曲面球型减隔震支座的铁路简支梁桥桥墩地震损伤分析.....许敏,魏标,刘义伟,张伦,李姗姗,颜璐(1769)
- 深水浅覆盖层河床条件桥梁围堰应用研究.....蒋海涛(1778)
- 基于正交试验的隧道近接施工隔离桩优化设计.....王祖贤,施成华,陈刚(1785)
- 灰色理论非等间距 GM(1,1)模型在土压平衡盾构废弃泥浆固结体强度预测中的应用
.....王振宇,阳军生,王星华(1792)
- 富水粉细砂围岩隧道地下水渗流特性及支护方案研究.....李小丰(1799)

机车车辆与设备

- 不平衡闸瓦压力作用重载机车轮轨动态行为.....曹云强,刘鹏飞,张凯龙,刘红军,高昊(1808)
- 基于 IRM-COM 的列车运行控制系统测试用例生成方法.....张雁鹏,梁春燕,谢迎锋,张振海(1817)
- 镉镍蓄电池寿命预测的 PF-LSTM 建模方法研究
.....成庶,甘沁洁,赵明,毕福亮,王家捷,王国良,于天剑(1825)
- 谱聚类图像分割在绝缘子憎水性批量检测系统中的应用.....柯良斌,李宗刚,杜亚江,朱香将(1833)
- 轴向冲击下薄壁方管屈曲模式及初始峰值力控制研究.....伊召锋,于尧,高广军,刘东亮(1841)

运输·物流·工程管理

- 多车场响应型接驳公交运行线路与调度的协调研究.....王正武,刘杰,邹文竹(1849)
- 地铁轨间区域吹吸式清扫工作状况的仿真研究.....郭员畅,章易程,张鸣凤,许彬,吴强运(1857)
- 基于动态布置法的地铁车站施工场地规划布置研究.....汲红旗,周佳庆,李磊,施成华,雷涛(1865)
- 基于数据场聚类的拉林铁路隧道施工风险评估.....张欢,郝伟,顾伟红(1874)

责任编辑: 阳丽霞 英文编审: 杨小礼 封面设计: 刘 谊

期刊基本参数: CN43-1423/U*2004*m*A4*272*zh*P*¥50.00*1500*32*2020-07

CONTENTS

High-speed Rail Technology and Intelligent Transportation

- Design and research of long-span concrete cable-stayed bridge for high-speed railway.....GONG Junhu(1611)
- Modal finite element calculation and test analysis on U-shaped rubber outer windshield structure of high speed train
.....CAI Jianming, ZHANG Sen, WANG Haiyan, XIONG Xiaohui, TANG Mingzan(1620)
- Research on wind velocity prediction models based on hybrid methods
.....ZHANG Rujiu, YAN Lei, HE Xuhui, LI Ruidong, SUN Ying(1630)
- Optimization model of hot standby EMU allocation scheme
.....XU Heying, PENG Xiaoqian, NI Shaoquan, YANG Xiaojun, ZHANG Jie(1637)
- High-speed railway subgrade service status assessment based on hazard-affected engineering vulnerability concept
.....CHEN Shuyang, CAO Lulai, YAO Yongsheng(1645)
- The optimization method of floating ticket price and ticket allocation of high-speed railway based on ARIMA model
.....YAO Jialin, PI Shan(1655)

Track and Foundation

- Study on spatial mechanical properties of pre-cast slab track system in subway line.....LIU Yaoqiang, XU Qingyuan(1662)
- Dynamic response analysis of railway ballast bed under multi-scale effect in sandstorm area
.....ZHANG Zhihai, XIAO Hong, FENG Ruiling, CUI Xuhao(1671)
- Landslide analysis of soft rock slope for oversea railway subgrade
.....YIN Jin, NIE Rusong, TANG Xiaodong, LIU Zhengqiang, GONG Shen, CHEN Fei(1679)
- Evaluation and analysis of station subgrade settlement in Lincang station of newly built Dali-Lincang railway
.....WANG Zi'ang, WANG Wubin, SU Qian, FU Weiqing, WU Hao, XIAO Yulin(1688)
- Mechanism and application of vacuum-surcharge preloading combined with prestressed pipe pile-geocell in deep soft foundation
treatment of storage yard.....CHEN Weijia, LIU Weizheng, LIN Zhenyu(1699)
- Applicable evaluation method of treatment technology for deep soft foundation diseases of in-service highway based on
AHP-Fuzzy theory.....GU Shaofu, LIU Weizheng, XU Linrong, SHI Zhiguo(1710)
- Deformation calculation and optimization analysis of h-type double-row piles in deep foundation pit
.....LUO Zhongxing, NIU Jiandong, LI Zewei, LI Shu, WANG Kehong(1720)
- Experimental study on improvement of two kinds of high liquid limit soil in Zhanjiang avenue using cement
.....MO Qiuxu, CHEN Jiachuang, XU Huisheng, HUANG Yi, LOU Ping(1728)
- Experimental investigation on the static and dynamic characteristics of silty clay reinforced with basalt fiber.....LIU Tao(1734)

Bridge, Tunnel and Structure

- Study on structural system selection of three-tower long-span cable-stayed bridge with high piers under earthquake
.....XU Xiangdong, WEI Biao, MA Baihu, DU Bin, LIU Xingmao(1743)
- Research on representative value of temperature difference of concrete curved beam bridge based on measured data
.....SUN Zengshou, XIA Yunfei, HAN Peiyan(1751)
- Observation of vortex-induced vibration and wind characteristics of cables across the Yangtze river bridge
.....LIU Zongjie, ZHU Zhiwen, CHEN Wei, CHEN Zhengqing(1760)
- Seismic damage analysis of simply-supported railway bridge piers based on double spherical seismic isolation bearings
.....XU Min, WEI Biao, LIU Yiwei, ZHANG Lun, LI Shanshan, YAN Lu(1769)
- Study on the application of bridge cofferdam in deep water and shallow overburden bed conditions.....JIANG Haitao(1778)
- Optimum design of isolation pile in tunnel close-spaced construction based on orthogonal test
.....WANG Zuxian, SHI Chenghua, CHEN Gang(1785)
- Application of grey theory's unequal interval GM(1,1) model in strength prediction of waste mud consolidation of earth
pressure balance shield.....WANG Zhenyu, YANG Junsheng, WANG Xinghua(1792)
- Study on groundwater seepage characteristics and reinforcement scheme of tunnels surrounded by water-rich fine siltstone rock
.....LI Xiaofeng(1799)

Vehicles and Equipment

- Wheel-rail dynamic behavior of heavy-haul locomotive under asymmetric brake shoe pressure
.....CAO Yunqiang, LIU Pengfei, ZHANG Kailong, LIU Hongjun, GAO Hao(1808)
- A method of test case generation based on IRM-COM for train control system
.....ZHANG Yanpeng, LIANG Chunyan, XIE Yingfeng, ZHANG Zhenhai(1817)
- PF-LSTM modeling method for life prediction of Ni-Cd battery
.....CHENG Shu, GAN Qinjie, ZHAO Ming, BI Fuliang, WANG Jiajie, WANG Guoliang, YU Tianjian(1825)
- Application of spectral clustering image segmentation in insulator hydrophobicity batch detection system
.....KE Liangbin, LI Zonggang, DU Yajiang, ZHU Xiangjiang(1833)
- On buckling mode and initial peak force control of thin-walled square tube under axial impact
.....YI Zhaofeng, YU Yao, GAO Guangjun, LIU Dongliang(1841)

Transportation · Logistics · Engineering Management

- Coordination research of running lines and vehicle scheduling for multi-depots responsive feeder transit
.....WANG Zhengwu, LIU Jie, ZOU Wenzhu(1849)
- Simulation study on the working conditions of blow-suction cleaning between subway-rails
.....GUO Yuanchang, ZHANG Yicheng, ZHANG Mingfeng, XU Bin, WU Qiangyun(1857)
- Study on programming of subway station construction site based on dynamic site layout planning
.....JI Hongqi, ZHOU Jiaqing, LI Lei, SHI Chenghua, LEI Tao(1865)
- Construction risk assessment of Lhasa-Linzhi railway tunnel based on data field clustering
.....ZHANG Huan, HAO Wei, GU Weihong(1874)