

ISSN 1001-8360

CN 11-2104/U

CODEN TIXUF5

2020 - 08

铁
道
学
报

铁道学报

JOURNAL OF THE CHINA RAILWAY SOCIETY

第 42 卷 第 8 期 Vol. 42 No. 8



中国铁道学会主办

第四十二卷

第八期

— 10 —
2020年八月



铁道学报

TIEDAO XUEBAO

第 42 卷 第 8 期 2020 年 8 月
目 次

铁道运输

- 地铁列车再生制动能量利用分析与时刻表优化方法研究 魏润斌, 杜鹏, 杨雍彬, 胡礼(1)
考虑解编调车成本的铁路技术站调车线运用优化 赵军, 张思宇, 彭其渊(10)
基于大数据铁路旅客画像的客运营销策略研究 俞诚成, 吕红霞(23)
融合本体和深度学习的高速铁路应急预案数字化方法研究 王普, 李平, 阿茹娜, 杨连报(29)

铁道机车车辆、电气化

- 运用条件下城轨车辆转向架疲劳寿命研究 王斌杰, 谢树强, 齐延辉, 李强, 姜朝勇, 董磊(37)
动车组车轮多轴疲劳强度分析及修正 王悦东, 战庆文, 张金玉, 陈秉智(45)
高速列车型面不同磨耗状态下的过岔性能研究分析 肖乾, 李超, 昌超, 孙加林(51)
受电弓安放位置与导流罩嵌入车体高低的气动噪声特性 张亚东, 张继业(60)
盐碱沙尘区域的接触网绝缘子动态积污与预测研究 王思华, 王惠, 田铭兴(68)

铁道通信信号、信息化

- 基于动态规划的列车节能操纵优化方法 高豪, 张亚东, 郭进, 查志(76)
基于等效阻抗模型的应答器下行链路传输性能评估方法研究 李正交, 蔡伯根, 刘江, 陆德彪, 朱林富, 刘浩(85)
基于 Weibull 分布和 SVR 的城轨列车自动进站停车精度预测方法 王峰, 黄友能, 何占元, 徐田华, 唐涛(93)

铁道工程、工程管理

- 基于深度残差网络的轨道结构病害识别 侯博文, 杨晓, 高亮, 肖宏, 马帅(100)
车轮廓形的演变对道岔区轮轨接触几何的影响 钱瑶, 王平, 赵思琪, 徐井芒, 方嘉晟, 王树国(107)
基于中点弦测法的中低速磁浮轨道不平顺检测 高雄杰, 于龙, 陈唐龙(116)
基于状态空间法的轨道不平顺与车体横向加速度关联模型 牛留斌, 刘金朝, 曲建军, 尹峰(123)
桥梁板式橡胶支座剪切破坏及摩擦滑移性能试验研究 李悦, 李冲, 李茜, 王克海(130)
铁路圆端空心墩等效塑性铰长度试验研究 邵长江, 漆启明, 韦旺, 肖正豪, 肖来川, 王猛(138)
软弱围岩隧道机械化全断面施工超前支护体系设计方法研究 王明年, 张霄, 赵思光, 王志龙, 刘大刚, 童建军(146)
多年冻土区风积沙与块石混合层对降雨的水热响应分析 韩风雷, 喻文兵, 陈琳, 胡达(155)

简讯

- 《铁道学报》投稿须知 (22)

JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol 42 No 8 August 2020

CONTENTS

- Analysis on Utilization of Regenerative Braking Energy for Metro Trains and Research on Timetable Optimization Method WEI Runbin , DU Peng , YANG Yongbin , HU Li(1)
- Classification Track Assignment Considering Sorting and Assembly Shunting Cost at Railway Technical Stations ZHAO Jun , ZHANG Siyu , PENG Qiyuan(10)
- Research on Passenger Transport Marketing Strategy Based on Big Data Railway Passenger Portrait YU Chengcheng,LÜ Hongxia(23)
- Method of Digitalization of High-speed Railway Emergency Plan Integrating Ontology and Deep Learning WANG Pu ,LI Ping ,E Runa ,YANG Lianbao(29)
- Research on Fatigue Life of Bogie Frame of Urban Mass Transit Vehicle under Operating Conditions WANG Binjie , XIE Shuqiang , QI Yanhui , LI Qiang , JIANG Chaoyong , DONG Lei(37)
- Analysis and Correction of Multi-axial Fatigue Strength of EMU Wheels WANG Yuedong , ZHAN Qingwen , ZHANG Jinyu , CHEN Bingzhi(45)
- Research on Turnout Passing Performance of High Speed Train with Different Wheel Wear States XIAO Qian ,LI Chao ,CHANG Chao , SUN Jialin(51)
- Aerodynamic Noise Characteristics of Installation Position of Pantograph and Fairing Embedded Into Different Height of Vehicle ZHANG Yadong , ZHANG Jiye(60)
- Study on Dynamic Contamination Accumulation and Prediction of Catenary Insulators in Saline -Alkali Sand Dust Area WANG Sihua , WANG Hui ,TIAN Mingxing(68)
- Optimization of Energy-efficient Train Operation Based on Dynamic Programming Approach GAO Hao , ZHANG Yadong , GUO Jin , ZHA Zhi(76)
- Research on Performance Evaluation Method of Down-link Signal in Balise Based on Equivalent Impedance Model LI Zhengjiao , CAI Baigen , LIU Jiang , LU Debiao , ZHU Linfu ,LIU Hao(85)
- Weibull Distribution and SVR Based Prediction Method for Parking Error of Metro Train WANG Feng , HUANG Youneng , HE Zhanyuan , XU Tianhua , TANG Tao(93)
- Identification of Track Structure Diseases Based on Deep Residual Network HOU Bowen ,YANG Xiao ,GAO Liang , XIAO Hong ,MA Shuai(100)
- Influence of Wheel Profile Evolution on Wheel-rail Contact Geometry in High-speed Turnout Area QIAN Yao ,WANG Ping ,ZHAO Siqu ,XU Jingmang ,FANG Jiasheng ,WANG Shuguo(107)
- Detection of Medium and Low Speed Maglev Track Irregularity Based on MCO GAO Xiongjie ,YU Long ,CHEN Tanglong(116)
- Study of Relation between Track Irregularity and Lateral Acceleration of Vehicle Based on State -space Model NIU Liubin ,LIU Jinzhao ,QU Jianjun ,YIN Feng(123)
- Experiment of Shear Failure and Friction Sliding Performance of Elastomeric Bearings of Bridges LI Yue ,LI Chong , Li Qian , Wang Kehai(130)
- Tests on Equivalent Plastic Hinge Length of Railway Round-ended Hollow Piers SHAO Changjiang ,QI Qiming ,WEI Wang ,XIAO Zhenghao ,XIAO Laichuan ,WANG Meng(138)
- Research on Design Method of Advance Support System for Mechanized Full-Face Excavation of Tunnel in Soft and Weak Surrounding Rock WANG Mingnian ,ZHANG Xiao ,ZHAO Siguang ,WANG Zhilong ,LIU Dagang ,TONG Jianjun(146)
- Hydrothermal Response of Mixed Layer of Block-Stone and Aeolian Sand to Rainfall in Permafrost Regions HAN Fenglei ,YU Wenbing ,CHEN Lin ,HU Da(155)