

ISSN 1001-8360

CN 11-2104/U

CODEN TIXUF5

2021 - 06

铁道学报

JOURNAL OF THE CHINA RAILWAY SOCIETY

第 43 卷 第 6 期 Vol. 43 No. 6



中国铁道学会主办



铁
道
学
报

第
四
十
三
卷

第
六
期

二
〇
二
一
年
六
月

铁道学报

TIEDAO XUEBAO

第 43 卷 第 6 期 2021 年 6 月

目次

铁道运输

- 高速铁路旅客感知便利性对旅客满意和忠诚的影响研究 李 桥(1)
集装箱陆海联运枢纽辐射范围模型研究 张新放,吕 靖,彭 琰(8)
资源集约化利用下铁路集装箱办理站布局优化研究 赵 娟,王 龙,刘畅(17)

铁道机车车辆、电气化

- 动车组车轮多边形磨耗发展历程模拟及车轮粗糙度的影响
..... 宋志坤,任海星,胡晓依,刘元富,刘 伟,李 强(23)
转向架构架试验载荷谱编制方法 孙晶晶,孙守光,李 强,王 曦(29)
基于深度学习的城轨列车轴承复合故障诊断研究 姚德臣,刘恒畅,杨建伟,李 熙,崔晓飞(37)
牵引电力电子变压器次谐振现象机理及抑制策略 刘华东,张志学,陈涛,黄子昊(45)
牵引供电系统负序潮流分析及电能计量方式研究 张丽艳,谢 晨,罗 博,刘 炜(54)
货物偏载对高速货运动车组在直线线路上行车安全影响研究 蒋建政,陈再刚,罗天祺,翟婉明,王家鑫(63)

铁道通信信号、信息化

- 基于卷积神经网络的列控车载设备故障分类研究 周璐婕,党建武,王瑜鑫,张振海(70)
基于深度学习的司机疲劳驾驶检测方法研究 李小平,白 超(78)
基于周期自适应学习的中低速磁悬浮列车运行控制方法
..... 张文静,南 楠,曹博文,李孟月,岳 强,徐洪泽(88)

铁道工程、工程管理

- 曲线轨道钢轨横向振动频域响应特性研究 杜林林,刘维宁,刘卫丰,马龙祥(95)
随机轮轨力作用下基于 2.5 维离散支撑模型的轨道垂向振动分析
..... 朱志辉,王 凡,罗思慧,李 奇,蒋丽忠(104)
CRTS II 型轨道板上拱变形的稳定与强度综合分析 陈 醉,刘学毅,肖杰灵,张雯皓,李 威(112)
弹性分开式扣件板下组合静刚度设计影响因素分析 韦 凯,赵泽明,王 显,江万红,王 平(121)
高速铁路有砟道床状态评定参数关联关系分析 刘 浩,杨国涛,江 成,刘淦中,姜子清,蔡超勋(128)
硫酸盐侵蚀条件下无砟轨道路基上拱特性研究 王鹏程,叶阳升,尧俊凯,陈 锋,张千里(135)
冻融-加载条件下改良风积砂土的损伤演化研究 任 昆,张向东,孙汉东,邢宇迪,黄志军(141)
既有重载铁路路桥过渡段轨道结构纵向差异沉降监测分析与预测
..... 冷伍明,周思危,聂如松,程龙虎,涂仁盼,范瑞祥(150)
软弱围岩隧道变形控制主动支护理念及技术 田四明,吴克非,刘大刚,王明年,王志龙(158)
基于非线性滑动面假设的盾构隧道松动土压力计算模型研究 ... 王 将,袁大军,金大龙,郑爱元,孙庆文(165)
加筋混凝土梁抗剪承载力统一计算方法研究 屈文俊,何松洋,刘文博(173)
疲劳荷载作用下 CFRP 布与钢板复合加固 RC 梁的裂缝特性研究 卢亦焱,胡 玲,李 杉,王康昊(181)
我国铁路运营二氧化碳排放影响因素研究 王 勇,李红昌,郭雪萌,于克美(189)

JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol.43 No.6 June 2021

CONTENTS

- Effects of Perceived Service Convenience of High-speed Railway Passengers on Passenger Satisfaction and Loyalty LI Qiao(1)
- Radiation Range Model of Container Land-sea Intermodal Hub ZHANG Xinfang, LÜ Jing, PENG Yan(8)
- Research on Optimization of Railway Container Handling Station Layout under Resource Intensive Utilization ZHAO Juan, WANG Long, LIU Chang(17)
- Research on Development Process Simulation and Influencing Factors of Polygonal Wear of High-speed Train Wheels SONG Zhikun, REN Haixing, HU Xiaoyi, LIU Yuanfu, LIU Wei, LI Qiang(23)
- Compilation Method of Test Load Spectrum for Bogie Frame SUN Jingjing, SUN Shouguang, LI Qiang, WANG Xi(29)
- Diagnosis of Compound Faults of Bearings of Urban Rail Train Based on Deep Learning Model YAO Dechen, LIU Hengchang, YANG Jianwei, LI Xi, CUI Xiaofei(37)
- Sub-resonance Mechanism and Suppression Strategy for Power Electronic Transformer for Traction LIU Huadong, ZHANG Zhixue, CHEN Tao, HUANG Zihao(45)
- Analysis of Negative Sequence Power Flow and Research on Electric Energy Metering Method for Traction Power Supply System ZHANG Liyan, XIE Chen, LUO Bo, LIU Wei(54)
- Study on Effect of Freight Center-of-Mass Offset on Running Safety of High-speed Freight EMUs JIANG Jianzheng, CHEN Zaigang, LUO Tianqi, ZHAI Wanming, WANG Jiabin(63)
- Research on Fault Classification Method for Onboard Equipment of Train Control System Based on Convolutional Neural Network ZHOU Lujie, DANG Jianwu, WANG Yuxin, ZHANG Zhenhai(70)
- Research on Driver Fatigue Driving Detection Method Based on Deep Learning LI Xiaoping, BAI Chao(78)
- Operation Control Method for Medium-low-speed Maglev Train Based on Periodic Adaptive Learning ZHANG Wenjing, NAN Nan, CAO Bowen, LI Mengyue, YUE Qiang, XU Hongze(88)
- Study on Lateral Dynamic Response of Curved Track in Frequency Domain DU Linlin, LIU Weining, LIU Weifeng, MA Longxiang(95)
- Analysis on Vertical Random Vibration of 2.5D Discrete Support Track Model under Wheel-rail Force Effect ZHU Zhihui, WANG Fan, LUO Sihui, LI Qi, JIANG Lizhong(104)
- Comprehensive Analysis of Stability and Strength of CRTS II Slab Track with Up-warp Deformation CHEN Zui, LIU Xueyi, XIAO Jiuling, ZHANG Wenhao, LI Wei(112)
- Analysis of Influencing Factors on Design of Combined Static Stiffness under Baseplate of Elastic Indirect Fasteners WEI Kai, ZHAO Zeming, WANG Xian, JIANG Wanhong, WANG Ping(121)
- Analysis on Correlation Between State Evaluation Parameters of Ballasted Bed in High-speed Railway LIU Hao, YANG Guotao, JIANG Cheng, LIU Ganzhong, JIANG Ziqing, CAI Chaoxun(128)
- Study on Heaving Characteristics of Ballastless Track Subgrade Subjected to Sulfate Attack WANG Pengcheng, YE Yangsheng, YAO Junkai, CHEN Feng, ZHANG Qianli(135)
- Damage Evolution of Improved Aeolian Sand under Freeze-thaw Cycles and Loading Conditions REN Kun, ZHANG Xiangdong, SUN Handong, XING Yudi, HUANG Zhijun(141)
- Monitoring Analysis and Prediction of Longitudinal Differential Settlement of Track Structures in Bridge-subgrade Transition Sections in Existing Heavy-haul Railways LENG Wuming, ZHOU Siwei, NIE Rusong, CHENG Longhu, TU Renpan, FAN Ruixiang(150)
- Study on Active Support Technology for Deformation Control of Tunnels in Soft Surrounding Rock TIAN Siming, WU Kefei, LIU Dagang, WANG Mingnian, WANG Zhilong(158)
- Research on Calculation Model for Loosening Earth Pressure of Shield Tunnel Based on Assumption of Non-liner Sliding Surface WANG Jiang, YUAN Dajun, JIN Dalong, ZHENG Aiyuan, SUN Qingwen(165)
- Study on Unified Calculation Method for Shear Strength of Reinforced Concrete Beams QU Wenjun, HE Songyang, LIU Wenbo(173)
- Study on Crack Behavior of RC Beams Strengthened with CFRP Sheets and Steel Plate under Fatigue Loading LU Yiyang, HU Ling, LI Shan, WANG Kanghao(181)
- Study on Influencing Factors of Carbon Dioxide Emissions from Railway Operations in China WANG Yong, LI Hongchang, GUO Xuemeng, YU Kemei(189)