

# 铁道学报

TIEDAO XUEBAO

第38卷 第5期 2016年5月  
目 次

## 铁道运输

- 考虑乘客出发时刻的城市轨道列车时刻表优化 ..... 朱宇婷,毛保华,史芮嘉,戎亚萍,赵欣苗(1)  
考虑通售席位的旅客列车票额优化方法 ..... 骆泳吉,刘军,赖晴鹰(11)

## 铁道机车车辆、电气化

- 不同轨底坡下地铁车辆轮轨型面匹配的动力学分析 ..... 陶功权,温泽峰,陆文教,金学松(16)  
基于连续损伤模型空气弹簧疲劳寿命分析 ..... 丁智平,李志超,何园,李雪冰,黄达勇(23)  
基于参数扰动比的高速列车车体模型修正研究 ..... 邱飞力,张立民,张卫华(30)  
基于时延自相关ICA的列车轮对轴承复合故障诊断方法 ..... 黄采伦,李忠,王靖,张小娟,曾照福(36)  
200~250 km/h 动车组车轴钢 CCT 曲线及末端淬透性试验研究 ..... 刘鑫贵,吴毅,孙维,汪开忠(42)  
基于遗传BP神经网络的绝缘子泄漏电流预测 ..... 张友鹏,伍亚萍,赵珊鹏(46)

## 铁道通信信号

- 基于5.9 GHz的TD-LTE的城市轨道交通通信系统测试研究 ..... 蒋海林,赵红礼,朱力,唐涛(53)  
地磁暴对25 Hz相敏轨道电路的影响分析 ..... 钱学成,刘明光,李阳,张晨云,王昕,宗伟(60)  
高速移动环境下中导码插入的WiFi信道估计算法研究 ..... 彭春华,姜植元,吴婧(67)

## 铁道工程

- 多维地震作用下桥梁-无砟轨道非线性相互作用 ..... 闫斌,刘施,戴公连,蒲浩,唐进锋(74)  
高速铁路车辆系统动力响应指标域估计及线路状态反演方法 ..... 徐磊,高建敏,翟婉明(81)  
衬砌-砂卵石地层随动塌落伞拱力学模式研究 ..... 郭璇,刘保国,张晓新,张顶立,王梦恕,邹翠荣(88)  
连续梁桥水平转体过程中振动加速度与整体稳定性关系研究 ..... 魏赞洋,张文学,黄荐,刘海陆(95)  
复杂条件下的地铁盾构隧道的力学行为研究 ..... 李春良,王方彦,张立辉,王静(103)  
基于拟可积Hamilton系统的铁路桥梁动力可靠度计算研究 ..... 赫中营,王根会,叶爱君,夏修身(110)

## 简讯

- 铁三院创新平台主要成果 ..... (封三)  
中国铁路总公司部署2016年铁路科技重点工作 ..... (10)  
中国铁道学会拟举办青藏铁路运营十周年学术研讨会 ..... (15)  
中国时速350 km高寒综合检测列车下线 ..... (35)  
詹天佑先生诞辰155周年座谈会在北京召开 ..... (66)  
国家铁路旅客发送量和白货运量实现大幅增长 ..... (73)  
中国通号7项成果获2015年度铁道科技奖 ..... (109)  
下期要目 ..... (116)

# JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol. 38 No. 5 May 2016

## CONTENTS

- Optimization of Urban Rail Timetable with Consideration of Passenger Departure Time Choices ..... ZHU Yuting, MAO Baohua, SHI Ruijia, RONG Yaping, ZHAO Xinmiao( 1 )
- Optimization of Seat Inventory Allocation for Passenger Trains with First-Come-First-Serve Seats ..... LUO Yongji, LIU Jun, LAI Qingying(11)
- Dynamic Analysis of Wheel and Rail Profile Matching Relationship for Metro Vehicle under Different Rail Cant Conditions ..... TAO Gongquan, WEN Zefeng, LU Wenjiao, JIN Xuesong(16)
- Fatigue Life Analysis of Air Springs Based on Continuum Damage Model ..... DING Zhiping, LI Zhichao, HE Yuan, LI Xuebing, HUANG Dayong(23)
- Study of High Speed Train Model Updating Based on Parameter Disturbance Ratio ..... QIU Feili, ZHANG Limin, ZHANG Weihua(30)
- Compound Fault Diagnosisased on Time Delay Autocorrelation ICA for Train Wheelset Bearing ..... HUANG Cailun, LI Zhong, WANG Jing, ZHANG Xiaojuan, ZENG Zhaofu(36)
- Experimental Study on CCT Curve and Hardenability of 200~250 km/h EMU Axle Steel ..... LIU Xingui, WU Yi, SUN Wei, WANG Kaizhong(42)
- Evaluating of Leakage Current of Insulators Based on the GA-BP Neural Network ..... ZHANG Youpeng, WU Yaping, ZHAO Shanpeng(46)
- Field Test of Urban Rail Transit Train-Wayside Communication Based on 5.9 GHz TD-LTE ..... JIANG Hailin, ZHAO Hongli, ZHU Li, TANG Tao(53)
- Analysis on How Geomagnetic Storms Affect 25 Hz Phase-sensitive Track Circuit ..... QIAN Xuecheng, LIU Mingguang, LI Yang, ZHANG Chenyun, WANG Xin, ZONG Wei(60)
- Midamble Aided WiFi Channel Estimation Algorithm in the High-speed Mobile Scenario ..... PENG Chunhua, JIANG Zhiyuan, WU Jing(67)
- Nonlinear Interaction between CRTS II Ballastless Track and Bridges due to Multi-dimensional Earthquake ..... YAN Bin, LIU Shi, DAI Gonglian, PU Hao, TANG Jinfeng(74)
- Region Estimation of Dynamic Response Indexes for High-speed Railway Vehicle System and Line Status Inversion Method ..... XU Lei, GAO Jianmin, ZHAI Wanming(81)
- Study on the Mechanical Model of Arch Collapse Umbrella Sand Gravel Layer Lining ..... GUO Xuan, LIU Baoguo, ZHANG Xiaoxin, ZHANG Dingli, WANG Mengshu, ZOU Cuirong(88)
- Research of Relationship Between Vibration Acceleration and Stability of Continuous Beam Bridge During Flat Rotation ..... WEI Zanyang, ZHANG Wenxue, HUANG Jian, LIU Hailu(95)
- Study on Mechanical Behavior of Metro Shield Tunnel under Complex Conditions ..... LI Chunliang, WANG Fangyan, ZHANG Lihui, WANG Jing(103)
- Research on Calculation of Dynamic Reliability of Existing Railway Bridge Based on Quasi-Integrable-Hamiltonian Theory ..... HE Zhongying, WANG Genhui, YE Aijun, XIA Xiushen(110)