

ISSN 1001-8360

CN 11-2104/U

CODEN TIXUF5

2019 - 05

铁道学报

JOURNAL OF THE CHINA RAILWAY SOCIETY

第41卷 第5期 Vol. 41 No. 5



中国铁道学会主办



铁 道 学 报

TIEDAO XUEBAO

第 41 卷 第 5 期 2019 年 5 月

目 次

铁道运输、工程管理

- 基于 N-K 模型的铁路危险品运输系统耦合风险形成机理研究 黄文成, 帅 斌, 孙 妍(1)
- 基于货物运到期限的列车运行线选择优化研究 张小炳, 李晟东, 吕红霞, 徐长安(10)
- 沪通长江大桥数字化运维系统的设计研发 张贵忠, 赵维刚, 张 浩(16)

铁道机车车辆、电气化

- 基于正交设计与 GA-BP 算法的铁路货车车体结构优化 刘文飞, 刘志明, 胡伟钢, 张 良, 田迎利(27)
- 不同车辆-轨道垂向动力学模型功率流传递特性研究 徐 宁, 任尊松, 薛 蕊, 李 强(35)
- 基于多仿真器的牵引传动系统实时仿真研究 武明康, 郭希铮, 李 诚, 唐一果(46)
- 基于自适应频率窗经验小波变换的列车轮对轴承多故障诊断 邓飞跃, 刘鹏飞, 陈恩利, 段修生(55)
- 基于 AT 供电方式下 380B 型高速动车组保护接地电流分布研究
..... 魏晓斌, 魏文赋, 桂志远, 李宇星, 杨泽锋, 吴广宁(64)

铁道通信信号、信息化

- 尺度自适应的铁路异物侵限 PSA-Kcf 降维跟踪方法 屈志坚, 周锐霖, 孙旭兵, 袁慎高, 赵 亮(71)
- 基于高阶全连接条件随机场的高速铁路异物入侵检测方法 王 尧, 余祖俊, 朱力强, 郭保青(82)

铁道工程

- 基于扣件 FVMP 模型的车-轨耦合随机振动分析 刘林芽, 卢沛君, 秦佳良(93)
- 车轮型面演变对高速道岔区轮轨接触行为影响分析 陈 嵘, 方嘉晟, 汪 鑫, 徐井芒, 崔大宾(101)
- 混凝土塑性损伤模型在无砟轨道非线性分析中的应用
..... 蔡小培, 钟阳龙, 阮庆伍, 任西冲, 高 亮, 沈宇鹏(109)
- 基于修正 Iwan 模型的铁路基床动力湿化特性研究 冯怀平, 韩博文, 宋慧来, 常建梅, 应志超(119)
- 中承式钢管混凝土拱桥地震易损性分析 卓卫东, 颜全哲, 吴梅容, 谷 音(126)
- 一种悬索桥主缆计算的新方法 邓小康, 徐恭义(133)
- 基于相似模型试验的简支箱梁振动传递特性研究 罗 锐, 汪振国, 雷晓燕, 欧开宽, 张新亚(142)
- 基坑开挖引起临近盾构隧道剪切错台变形计算研究 魏 纲, 俞国骅, 张 佳, 张治国, 王立忠(149)
- 多年冻土区引气混凝土抗压强度及抗冻性研究 张 凯, 王起才, 杨子江, 王庆石, 梁柯鑫(156)
- 钢轨轮廓全断面检测中的快速高鲁棒性匹配方法研究 冯 凯, 于 龙, 占 栋, 张冬凯(162)
- 列车-CRTS II 型板式无砟轨道-路基系统加速度响应大型振动台试验研究
..... 曹礼聪, 童心豪, 张志方, 张建经, 李晓斌, 杨长卫(168)
- 用于车辆-轨道系统参数优化的分层设计与权重组合方法 徐 磊, 陈宪麦(177)

科技信息

- 《铁道学报》“川藏铁路建设科技原始创新及应用技术创新高端学术论文”稿约 (108)
- 中车株洲电力机车有限公司主要科技创新成果 (184)

JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol.41 No.5 May 2019

CONTENTS

- Study on Coupling Risk Formation Mechanism of Railway Dangerous Goods Transportation System
Based on N-K Model HUANG Wencheng, SHUAI Bin, SUN Yan(1)
- Study on Optimization of Train Path Selection Based on Freight due Date
..... ZHANG Xiaobing, LI Shengdong, LÜ Hongxia, XU Changan(10)
- Design and Development of Digital Operation and Maintenance System for Hutong Yangtze River Bridge
..... ZHANG Guizhong, ZHAO Weigang, ZHANG Hao(16)
- Structural Optimization of Wagon Body Based on Orthogonal Design and GA-BP Algorithm
..... LIU Wenfei, LIU Zhiming, HU Weigang, ZHANG Liang, TIAN Yingli(27)
- Study on Power Flow Transfer Characteristics with Different Vehicle/Track System Dynamics Models
..... XU Ning, REN Zunsong, XUE Rui, LI Qiang(35)
- Real-time Simulation Research of Electrical Traction System Based on Multi-simulator
..... WU Mingkang, GUO Xizheng, LI Cheng, TANG Yiguo(46)
- Multiple Fault Diagnosis of Train Wheelset Bearing Based on Adaptive Frequency Window
Empirical Wavelet Transform DENG Feiyue, LIU Pengfei, CHEN Enli, DUAN Xiusheng(55)
- Research of Protective Grounding Current Distribution of 380B EMU Based on AT Power Supply Mode
..... WEI Xiaobin, WEI Wenfu, GUI Zhiyuan, LI Yuxing, YANG Zefeng, WU Guangning(64)
- Scale Adaptive PSA-Kcf Dimension Reduction Tracking Method for Railway Foreign Body Intrusion
..... QU Zhijian, ZHOU Ruilin, SUN Xubing, YUAN Shengao, ZHAO Liang(71)
- Incursion Detection Method Based on Higher-order Fully-connected Conditional Random Fields
..... WANG Yao, YU Zujun, ZHU Liqiang, GUO Baoqing(82)
- Random Vibration Analysis of Vehicle-track Coupling System Based on Fastener FVMP Model
..... LIU Linya, LU Peijun, QIN Jialiang(93)
- Influence of Wheel Profile Evolution on Wheel-rail Contact Behavior in High-speed Turnout Area
..... CHEN Rong, FANG Jiasheng, WANG Xin, XU Jingmang, CUI Dabin(101)
- Application of Concrete Damaged Plasticity Model to Nonlinear Analysis of Ballastless Track
CAI Xiaopei, ZHONG Yanglong, RUAN Qingwu, REN Xichong, GAO Liang, SHEN Yupeng(109)
- Study on Dynamic Slaking Deformation Characteristics of Railway Subgrade Based on Modified Iwan's
Model FENG Huaiping, HAN Bowen, SONG Huilai, CHANG Jianmei, YING Zhichao(119)
- Seismic Fragility Analysis of Half-through Concrete Filled Steel Tubular Arch Bridge
..... ZHUO Weidong, YAN Quanzhe, WU Meirong, GU Yin(126)
- New Method for Calculating Main Cable of Suspension Bridge DENG Xiaokang, XU Gongyi(133)
- Study on Vibration Transmission Characteristics of Simply-supported Box-girders Based on Similarity
Model Test LUO Kun, WANG Zhenguo, LEI Xiaoyan, OU Kaikuan, ZHANG Xinya(142)
- Study on Calculation of Shield Tunnel Shearing Dislocation Platform Deformation due to Adjacent Foundation
Pit Excavation WEI Gang, YU Guohua, ZHANG Jia, ZHANG Zhiguo, WANG Lizhong(149)
- Effect of Air-entrained Concrete on Compressive Strength and Frost Resistance in Permafrost Regions
..... ZHANG Kai, WANG Qicai, YANG Zijiang, WANG Qingshi, LIANG Kexin(156)
- Research on Fast and Robust Matching Algorithm in Inspection of Full Cross-section Rail Profile
..... FENG Kai, YU Long, ZHAN Dong, ZHANG Dongkai(162)
- Large Shaking Table Test on Acceleration Response of Train-CRTSII Slab Ballastless Track-subgrade System
CAO Licong, TONG Xinhao, ZHANG Zhifang, ZHANG Jianjing, LI Xiaobin, YANG Changwei(168)
- Multi-layer Design and Weight Method for Parameter Optimization of Vehicle-track System
..... 方方数据 XU Lei, CHEN Xianmai(177)