

铁 道 学 报

TIEDAO XUEBAO

第 39 卷 第 12 期 2017 年 12 月

目 次

铁道运输

- 基于组合权重的铁路危险货物运输风险预警模型 栾婷婷,郭 湛,庞 磊,吕鹏飞,商一帆(1)
基于信息公理和多粒度语言值的铁路应急预案评估方法研究 李 磊,倪鹏炯,王富章,韦 强,吴金洪(8)

铁道机车车辆、电气化

- 高速列车车体模态贡献量对振动的影响分析 贺小龙,张立民,鲁连涛,邱飞力(16)
基于阻抗分析法的牵引供电低频网压波动研究 姜晓锋,胡海涛,何正友,钱清泉(23)
接地方式对高速动车组升弓浪涌过电压的影响 万玉苏,刘耀银,高国强(32)
电气化铁路钢轨交流内阻抗计算 朱 峰,李嘉成,李朋真,李 鑫,刘志刚(38)
铁路站场牵引回流系统的回流特性研究 曹晓斌,何方方(43)
基于乘客热舒适性的空调列车软卧包厢送风气流组织优化研究 刘志永,尹海国,孙翼翔,李安桂(50)

铁道通信信号

- 基于双频段组网及 CA 覆盖下改进 PF 算法的高速铁路 TD-LTE 专网优化 赵洪伟,刘海朝(58)
均衡节点与权重的铁路光传送网路由优化算法 孙 强,李德莉,任 叶(67)
列车通信网络并行冗余方法与协议的研究 靳建宇,王立德,简 捷,申 萍,刘 彪(76)
考虑列车运行速度的应答器传输系统可靠性评估 李正交,蔡伯根,戴胜华,陆德彪,刘 江(86)

铁道工程

- 高速铁路 CHN60N 钢轨与不同车轮踏面匹配性能研究 王 健,马晓川,陈嘉胤,徐井芒,王 平(94)
波数有限元法分析频率域内无砟轨道刚度的动力特性 冯青松,成 功(102)
路基基床动应力响应特征的数值模拟研究 刘文劼,梅慧浩,冷伍明,董 城,徐 方,聂如松(108)
不同激振频率下云桂铁路路堑基床振动特性现场试验 王亮亮,薛 元,柳志军,刘江涛,封志军,龚建辉(118)
预应力效应对自复位高墩地震反应的影响 夏修身,陈兴冲,赵 扬(124)
高温变温条件下喷射混凝土-花岗岩胶结面剪切强度 唐兴华,王明年,童建军,董从宇,王翊丞(131)
基于 FE-SEA 混合法的车内结构噪声预测分析 罗文俊,蒋峻楠,雷晓燕,刘全民(137)

科技信息

- 中铁第五勘察设计院集团有限公司科技创新成果 (封三)
国家铁路局铁路优质创新工程简介(3) (15)
《铁道学报》揽获“百杰”“精品”“国际影响力”称号 (146)

JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol.39 No.12 December 2017

CONTENTS

Early Warning Model for Risks in Railway Transportation of Dangerous Goods Based on Combination Weight	LUAN Tingting, GUO Zhan, PANG Lei, LÜ Pengfei, SHANG Yifan(1)
Evaluation Method of Railway Emergency Plans Based on Information Axiom and Multi Granularity Linguistic Value ...	LI Lei, NI Pengjiong, WANG Fuzhang, WEI Qiang, WU Jinhong(8)
Analysis of Impact of Modal Contribution Factors of High-speed Train Body on Vibration	HE Xiaolong, ZHANG Limin, LU Liantao, QIU Feili(16)
Study on Low Frequency Voltage Fluctuation for Traction Power Supply Based on Impedance Analysis Method	JIANG Xiaofeng, HU Haitao, HE Zhengyou, QIAN Qingquan(23)
Influence of Grounding Mode on Surge Overvoltage Caused by Pantograph Raising in High-speed EMU	WAN Yusu, LIU Yaoyin, GAO Guoqiang(32)
Calculation of Alternating-current Impedance for the Rail of Electric Railway	ZHU Feng, LI Jiacheng, LI Pengzhen, LI Xin, LIU Zhigang(38)
Research on Return Current Characteristics of Traction Return Current System in Station Yard	CAO Xiaobin, HE Fangfang(43)
Optimization of Ventilation Air Distribution in Soft Sleeper Compartment Based on Thermal Comfort of Air-conditioned Train Passenger	LIU Zhiyong, YIN Haiguo, SUN Yixiang, LI Angui(50)
High-speed Railway TD-LTE Private Network Optimization Based on Dual-band Networking and Improved PF Algorithm of CA	ZHAO Hongwei, LIU Haichao(58)
Hop and Weight Balancing Based Railway Optical Transmission Network Path Routing Algorithm	SUN Qiang, LI Deli, REN Ye(67)
Research on Parallel Redundancy Method and Protocol of Train Communication Network	JIN Jianyu, WANG Lide, JIAN Jie, SHEN Ping, LIU Biao(76)
Reliability Evaluation of Balise Transmission System Considering Train Velocity	LI Zhengjiao, CAI Baigen, DAI Shenghua, LU Debiao, LIU Jiang(86)
Study of Matching Performance of CHN60N Rail with Different Wheel Treads in High-speed Railway	WANG Jian, MA Xiaochuan, CHEN Jiayin, XU Jingmang, WANG Ping(94)
Dynamic Characteristics Analysis of Ballastless Track Stiffness in Frequency Domain by Using Wavenumber Finite Element Method	FENG Qingsong, CHENG Gong(102)
Numerical Analysis of Dynamic Stress Response Characteristics of Subgrade Bed	LIU Wenjie, MEI Huihao, LENG Wuming, DONG Cheng, XU Fang, NIE Rusong(108)
In-situ Test on Vibration Characteristics of Cutting Subgrade Bed of Yunnan-Guangxi Railway under Different Excitation Frequencies	WANG Liangliang, XUE Yuan, LIU Zhijun, LIU Jiangtao, FENG Zhijun, GONG Jianhui(118)
Influence of Prestress Effect on Seismic Response of Self-centering Tall Pier	XIA Xiushen, CHEN Xingchong, ZHAO Yang(124)
Shear Strength of Cementation Plane between Shotcrete and Granite under High and Variable Temperature	TANG Xinghua, WANG Mingnian, TONG Jianjun, DONG Congyu, WANG Yicheng(131)
Prediction Analysis of Internal Structure Noise of Train Based on FE-SEA Hybrid Method	LUO Wenjun, JIANG Junnan, LEI Xiaoyan, LIU Quanmin(137)