

中国铁道科学

第 32 卷第 1 期(总第 115 期)2011 年 1 月

目 次

粒径对块石层自然对流特性影响的试验研究	卞晓琳, 何 平, 吴青柏, 等(1)
铁路路基戈壁土填料级配及压实特性分析	杨 斌, 赖国泉, 杨有海, 等(7)
进口淬火钢轨的性能及应用研究	张银花, 陈朝阳, 刘丰收, 等(12)
钢轨焊接接头平直度的影响因素	蔡志鹏, 赵海燕, 鹿安理, 等(20)
鲁棒实时钢轨表面擦伤检测算法研究	任盛伟, 李清勇, 许贵阳, 等(25)
钢弹簧浮置板轨道参数研究	丁德云, 刘维宁, 李克飞, 等(30)
城市轨道交通高架桥梯形轨枕轨道降噪性能试验分析	战家旺, 夏 禾, 善田康雄, 等(36)
偶然荷载对桥上岔区纵连无砟轨道受力和位移的影响	任娟娟, 王 平, 李培刚, 等(41)
箱梁悬臂板局部振动特性及其对列车走行性影响	李 奇, 吴定俊, 邵长宇(48)
铁路桥梁群钉组合结构极限承载力和静力行为分析	侯文崎, 叶梅新(55)
超大跨径 CFRP 主缆悬索桥合理结构体系研究	李翠娟, 童育强, 刘明虎, 等(62)
桥梁结构基于性能的地震经济风险评估	张 凯, 朱 晔, 倪永军, 等(68)
采用长距离水平冻结暗挖法的浅埋大断面地铁隧道施工技术	姚直书, 蔡海兵, 程 桦, 等(75)
地下水水位上升对地铁隧道结构的影响分析	罗富荣, 刘赆炜, 韩 煌(81)
120 km·h ⁻¹ 速度等级重载货运机车车钩装置载荷谱研究	李国顺, 哈 米(86)
新型高摩擦系数合成闸瓦配方及工艺的研究	裴顶峰, 张国文, 党 佳, 等(91)
链形悬挂系统静态弹性的解析计算	白裔峰, 蒋先国, 高仕斌, 等(95)
覆盖客运专线车站的 GSM-R 小区内列车驻留时间分布模型	李 晔, 严余松(102)
相邻闭塞分区轨道电路信号相同载频问题的研究	李 琴, 范丽君(108)
基于线性拟合的区间轨道电路传输特性	孟景辉, 谢保锋, 高利民(112)
基于列车运行时间偏离的地铁列车运行图缓冲时间研究	赵宇刚, 毛保华, 蒋玉琨(118)
铁路超限货物限界距离计算方法	韩 梅, 韩伯领, 李红艳, 等(122)
基于产业生命周期理论的我国铁路发展趋势分析	李雪梅, 阎 玮(127)

· 博士学位论文摘要 ·

高速铁路轮轨噪声理论计算与控制研究	杨新文, 翟婉明(133)
-------------------------	---------------

· 成果简报 ·

客运专线综合防灾安全监控仿真系统的设计与开发	张洪宇, 张 源, 夏德春(136)
75 kg·m ⁻¹ 钢轨用轨撑设计与铺装试验	马 莉, 宣 言, 王 澜, 等(141)

· 科技信息 ·

第 7 届世界高速铁路大会在北京圆满落幕	(19)
中国铁道科学研究院 2009 年科技成果简介(续三)	徐 上(24)

CHINA RAILWAY SCIENCE

Vol. 32 No. 1 (Series No. 115) January 2011

CONTENTS

Experimental Study on the Influence of the Particle Diameter on the Natural Convection Characteristics of the Block Stone Layer	BIAN Xiaolin, et al (1)
Analysis on the Grading and the Compaction Characteristics of the Gobi Soil Filling for Railway Subgrade	YANG Bin, et al (7)
Study on the Service Performance of the Imported Quenched Rails ...	ZHANG Yinhua, et al (12)
Factors Influencing the Perceived Level-Straight Quality of the Welded Rail Joints	CAI Zhipeng, et al (20)
Research on Robust Fast Algorithm of Rail Surface Defect Detection	REN Shengwei, et al (25)
Parametric Study of the Steel Spring Floating Slab Track	DING Deyun, et al (30)
Experimental Study on the Noise Reduction Performance of the Ladder Sleeper Track on the Elevated Bridges of Urban Rail Transit	ZHAN Jiawang, et al (36)
Influence of the Accidental Loading on the Force and Displacement of Longitudinal Coupled Slab Track with Seamless Turnout on Bridges	REN Juanjuan, et al (41)
The Local Vibration of the Box Girder Cantilever Plate and Its Influence on the Train Running Performance	LI Qi, et al (48)
Analysis on the Ultimate Bearing Capacity and the Static Behavior of the Composite Structures with Grouped Studs in Railway Bridge	HOU Wenqi, et al (55)
Study on the Rational Structure System for Super Large-Span Suspension Bridge with CFRP Main Cables	LI Cuijuan, et al (62)
Performance-Based Seismic Financial Risk Assessment for Bridge Structure	ZHANG Kai, et al (68)
Construction Technique for the Shallow-Buried Subway Tunnel with Large-Section by Long-Distance Horizontal Ground Freezing Method and Undermining Method	YAO Zhishu, et al (75)
Numerical Analysis on the Influence of the Rising Groundwater Level on the Metro Tunnel Structure	LUO Furong, et al (81)
Study on the Load Spectrum of the Coupler Device of the Heavy Haul Freight Electric Locomotive Running at $120 \text{ km} \cdot \text{h}^{-1}$	LI Guoshun, et al (86)
Study on the Formulation and Technology of the New Composite Brake Shoes with High-Friction Coefficient	PEI Dingfeng, et al (91)
The Analytical Calculation of the Static Elasticity for the Catenary System	BAI Yifeng, et al (95)
Modeling Train Residence Time Distribution within GSM-R Cell Covering Station in Passenger Dedicated Line	LI Ye, et al (102)
Study on the Problem of the Track Circuit Signal with the Same Carrier Frequency in the Adjacent Block Sections	LI Qin, et al (108)
The Transmission Characteristics of the Section Track Circuit Based on the Linear Fitting Method	MENG Jinghui, et al (112)
Study on the Buffer Time of Metro Train Diagram Based on Train Running Time Deviation	ZHAO Yugang, et al (118)
Calculation Method of the Distance between Railway Out-of-Gauge Goods and Structure Gauge	HAN Mei, et al (122)
Analysis on the Development Trend of China Railway Based on Industry Life Cycle Theory	LI Xuemei, et al (127)
Theoretical Calculation and Control Study on the Wheel/Rail Noises of High Speed Railway	YANG Xinwen, et al (133)
The Design and Development of the Integrated Disaster Prevention and Safety Monitoring Simulation System for Passenger Dedicated Lines	ZHANG Hongyu, et al (136)
Design and Track Laying Test of the Rail Braces for $75 \text{ kg} \cdot \text{m}^{-1}$ Rails	MA Li, et al (141)