



ISSN 1001-4632
CN 11-2480/U

中国铁道科学

ZHONGGUO TIEDAO KEXUE

CHINA RAILWAY SCIENCE

6

2012

第33卷 第6期

Vol.33 No.6

卷终



9 771001 463019

万方数据

中国铁道科学研究院主办

CHINA RAILWAY SCIENCE

Vol. 33 No. 6 (Series No. 127) November 2012

CONTENTS

Research on the Creep Characteristics of Remolded Saturated Clay under Respective Loading	YE Yangsheng , et al (1)
Settlement Prediction of High-Speed Railway Subgrade Based on Least Squares Support Vector Machine	FENG Shengyang , et al (6)
Study on the Mechanical Properties of Railway Prestressed RPC Lower Height Beam with 32 m Span	ZHONG Tieyi , et al (11)
Research on the Effective Length Factor of Tower Column Longitudinal Stability in Steel Truss Bridge Stiffened with Rigid Suspension Cables	LIU Shizhong , et al (17)
The Influence of the Shear Stiffness of Stud Connectors on the Natural Vibration Characteristics of Steel-Concrete Composite Beams	HOU Zhongming , et al (24)
Research on the Wind Load of the Trestle Bridge Locked in a High Position	LI Hongmei , et al (30)
Influence of Long-Term Seepage of Shield Tunnel on Inner Force of Segments and Ground Surface Settlement	HUANG Hongwei , et al (36)
The Effect of Chemical Composition, Microstructure on the Mechanical Properties of Wheel Steels	SHI Jianping , et al (44)
Calculation and Research on Wheel-Rail 3D Contact Geometry Based on Projection Contour	ZENG Yuqing , et al (51)
Optimization Research on the Energy Absorbing Bearing Structure of Railway Vehicle	XIE Suchao , et al (60)
Study on the Geometric Measurement Methods for the Volume of 70 t-Grade Railway Tank Cars	FU Qingxi , et al (69)
Wind Tunnel Test on the Aerodynamic Characteristics of Contact Wire for High-Speed Railway	XIE Qiang , et al (75)
Design and Safety Analysis of Communication Protocols for All-Electronic Computer Interlocking System	XULi , et al (83)
A Type of Safety-Priority Threshold Sensitive Clustering Routing Protocol Based on Wireless Sensor Network	ZHENG Wei , et al (88)
Study on the Risk Ranking Model of Train Control System Based on TOPSIS Method	ZHANG Yadong , et al (96)
Optimal Allocation of Railway Rescue Resources Based on Line Risk	WANG Fuzhang , et al (102)
Research on the Optimization Model for Multi-Point Train Formation Plan	WANG Zhimei , et al (108)
Integrated Optimization Model and Solution for Railway Empty Car Allocation	CHENG Xueqing (115)
Network Structure Optimization of Railway Freight Embedded in Social Logistics System Based on Combination Betweenness Centrality	LU Haiping , et al (120)
Study on the Allocation Modes of Transportation Resources and Granger Causality Test	WANG Ruijun , et al (126)
Study on Evaluation Methods for Lateral Stability of High-Speed Trains	YAO Jianwei , et al (132)

中 国 铁 道 科 学

第 33 卷 第 6 期(总第 127 期)2012 年 11 月

目 次

分别加载下重塑饱和黏土蠕变特性研究	叶阳升, 陈 锋, 蔡德钩, 等(1)
基于最小二乘支持向量机的高速铁路路基沉降预测	冯胜洋, 魏丽敏, 郭志广(6)
铁路 32 m 预应力活性粉末混凝土低高度梁力学性能研究	钟铁毅, 刘志东, 闫志刚, 等(11)
刚性悬索加劲钢桁梁桥塔柱纵向稳定计算长度系数研究	刘世忠, 刘永健, 李建红, 等(17)
栓钉连接件抗剪刚度对钢—混凝土结合梁自振特性影响研究	侯忠明, 夏 禾, 张彦玲(24)
高位锁定形态栈桥的风荷载研究	李红梅, 方 兴, 宣 言, 等(30)
盾构隧道长期渗水对地表沉降及管片内力的影响	黄宏伟, 刘 印, 张冬梅(36)
车轮钢的化学成分、微观组织对车轮钢力学性能的影响	史建平, 刘忠侠, 肖 乾(44)
基于投影轮廓的轮轨三维接触几何计算研究	曾宇清, 文 彬, 于卫东, 等(51)
铁道车辆承载吸能结构优化研究	谢素超, 田红旗(60)
70 t 级铁路罐车容积的几何测量法研究	傅青喜, 邵学君, 丁建兴, 等(69)
高速铁路接触线气动力特性的风洞试验研究	谢 强, 王 巍, 李海若(75)
全电子计算机联锁系统的通信协议设计及安全性分析	许 丽, 苏思琦, 旷文珍(83)
一种基于无线传感器网络的安全优先门限敏感分簇路由协议	郑 伟, 苏 川, 李开成(88)
基于 TOPSIS 法的列车运行控制系统风险排序模型研究	张亚东, 邹 波, 郭 进, 等(96)
基于线路风险的铁路救援资源优化配置	王富章, 石定寰, 申金升(102)
多点列车编组计划优化模型研究	王志美, 林柏梁, 陈 雷, 等(108)
铁路空车调配综合优化模型及求解	程学庆(115)
基于联合介数中心度的铁路货运嵌入社会大物流系统网络结构优化	路海平, 鞠颂东(120)
交通运输资源配置模式及其 Granger 因果关系检验研究	王瑞军, 武 旭, 胡思继, 等(126)
Study on Evaluation Methods for Lateral Stability of High-Speed Trains	YAO Jianwei, SUN Lixia, HOU Fuguo (132)
《中国铁道科学》2012 年(第 33 卷)总目次	(I)

· 科技信息 ·

中国铁道科学研究院 2011 年科技成果简介(续二)	陈 源(16)
《中国铁道科学》征订启事	(50)

期刊基本参数:CN 11-2480/U * 1979 * b * A4 * 144 * zh * P * ￥20.00 * 1200 * 21 * 2012-11