

中文核心期刊 RCCSE 中国核心学术期刊

ISSN 1003-1995

CN 11-2027/U

铁道建筑

第62卷 第7期

2022

RAILWAY ENGINEERING

Vol.62 No.7

重载铁路轨枕承轨面磨损机理及减磨措施 潘振 崔树坤 尤瑞林 等

基于改进D-S证据理论的简支梁桥结构损伤识别 王先龙 刘建勋 张戎令 等

时速200 km客货共线铁路隧道内轮廓优化 陈花顺

新旧并排组合桩板墙协同作用机理模型试验研究 祁永福 马学宁

封面供图 罗春晓



ISSN 1003-1995



中国铁道科学研究院集团有限公司 主办



TIEDAO JIANZHU

2022年7月 第62卷 第7期(总第581期)

目 次

特稿

- 重载铁路轨枕承轨面磨损机理及减磨措施 潘振 崔树坤 尤瑞林 等(1)
基于改进D-S证据理论的简支梁桥结构损伤识别 王先龙 刘建勋 张戎令 等(5)
时速200 km客货共线铁路隧道内轮廓优化 陈花顺(11)
新旧并排组合桩板墙协同作用机理模型试验研究 祁永福 马学宁(16)

线路与养护维修

- 钢轨廓形偏差对动车组构架横向振动的影响 杨光 侯茂锐 刘丰收 等(21)
基于准弹性修正法计算道岔区轮轨接触关系 罗燕 陈嵘 袁钰雯 等(25)
普速铁路钢轨无损联结装置设计研究 徐玉坡 李烨峰 魏刚 等(30)
基于频响法的弹性垫层动态特性试验设备研制 刘炳彤 崔树坤 闫子权 等(34)
朔黄重载铁路直线及大半径曲线区段钢轨大修周期研究 杨文 马帅 刘秀波 等(39)
建立普速铁路钢轨大修指数的探讨 高彦嵩 梁旭 魏夕凯 等(43)
运营铁路有砟道床车载式检测技术综述 杨爱红 王石磊 冯乾旭(47)
基于多源融合与台账修正的轨检车里程确定方法 陈仕明 魏世斌 秦哲 等(52)
基于检测结果的预应力混凝土轨枕质量分析 宋瑞 赵柯 杨全亮 等(57)
重载线路道床清筛后捣稳作业模式研究 王新平(61)

桥梁与结构工程

- 节段预制拼装超高性能混凝土梁弯曲试验 毛佳豪 李立峰 房宇超(65)

- 深水大跨度刚构连续梁桥稳定性参数敏感度研究 袁步德(69)
- 既有 250 km/h 高速铁路 32 m 简支箱梁提速至 300 km/h 适应性分析 赵健业 胡所亭 王巍(74)
- 时速 200 km 的 32 m 简支箱梁极限承载力研究 魏剑峰(77)
- 高速铁路大跨度桥梁变形对线路平顺度的影响分析 魏周春(81)
- 大跨度长联公铁两用钢桁梁桥监控研究 刘国飞(86)

隧道与地下工程

- 铁路隧道二次衬砌施工冷缝成因及对策 满世浩 石广田 满开泉(92)
- 城市轨道交通矩形减振隧道参数仿真研究 安亚超 张胜龙 王文斌 等(97)
- 富水粉细砂岩地层隧道排堵水措施的适应性 弯晓林 兰庆男 张志强(101)
- 基于 BP 神经网络算法的大变形隧道位移监测数据分析与应用 刘博峰(106)
- 行车隧道叠落布置条件下盾构机过站技术 杨冬梅(110)
- 隧道周边孔差异化爆破作用机理及试验研究 康永全 孟海利 郭云龙 等(114)

路基与地基基础

- 新建高速铁路路基沉降速率提醒阈值确定方法与异常处置 刘俊飞(118)
- 高速列车荷载下无砟轨道-沥青混凝土路面路基结构力学响应 孔繁越(122)
- 变截面底端扩体型锚杆在粉质黏土中的承载特性模型试验研究 董捷 陶春晨 张国祥 等(127)
- 黄土地区螺杆灌注桩复合地基承载特性与沉降分析 马志勇(133)
- 提速条件下兰新铁路乌奎段路基沉降整治技术 贾海锋 程佳 赵相卿 等(138)
- GPR 技术在北同蒲线路基塌陷探测中的应用 胡在良 刘欢 杜翠(142)

RAILWAY ENGINEERING

July 2022 Vol.62 No.7 (Series No.581)

CONTENTS

Special Contribution

Wear Mechanism and Reduction Measures of Sleeper Bearing Surface on Heavy Haul Railway.....	PAN Zhen, et al(1)
Structural Damage Identification of Simply Supported Girder Bridges Based on Improved D-S Evidence Theory	WANG Xianlong, et al(5)
Optimization of Tunnel Inner Contour of 200 km/h Mixed Passenger and Freight Railway	CHEN Huashun(11)
Experimental Study on Synergistic Action Mechanism of New and Old Side-by-side Composite Sheet-pile Wall	QI Yongfu, et al(16)

Track and Its Maintenance

Influence of Rail Profile Deviation on Lateral Vibration of EMU Bogie	YANG Guang, et al(21)
Calculation of Wheel-Rail Contact Relationship in Turnout Area Based on Quasi Elastic Correction Method	LUO Yan, et al(25)
Research on Design of Nondestructive Coupling Device Used for General Speed Railway Rail	XU Yupo, et al(30)
Development of Dynamic Characteristic Test Equipment for Elastic Pads Based on Frequency Response Method	LIU Bingtong, et al(34)
Research on Rail Overhaul Cycle in Straight Lines and Large-radius Curves of Shuzhou-Huanghua Heavy Haul Railway	YANG Wen, et al(39)
Discussion on Establishing Rail Renewal Index of Common Speed Railway	GAO Yansong, et al(43)
Review on Vehicle Mounted Detection Technology of Railway Ballasted Bed in Operation	YANG Aihong, et al(47)
Mileage Determination Method of Track Inspection Car Based on Multi-source Fusion and Account Correction	CHEN Shiming, et al(52)
Quality Analysis of Prestressed Concrete Sleeper Based on Test Results	SONG Rui, et al(57)
Study on Tamping Modes After Ballast Bed Cleaning of Heavy Haul Railway	WANG Xinping(61)

Bridge and Structural Engineering

Bending Test of Segmental Precast Ultra-high Performance Concrete Beam	MAO Jiahao, et al(65)
Study on Stability Parameter Sensitivity of Long-span Rigid Frame Continuous Beam	
Bridge in Deep Water	YUAN Bude(69)

Adaptability Analysis of 32 m Simply Supported Box Girder of Existing 250 km/h High Speed Railway to Speed Up to 300 km/h	ZHAO Jianye, et al(74)
Research on Ultimate Bearing Capacity of 32 m Simply Supported Box Girder with a Speed of 200 km/h	WEI Jianfeng(77)
Analysis on Influence of Long-span High Speed Railway Bridge Deformation on Line Smoothness	WEI Zhouchun(81)
Research on Monitoring and Control of Long-span Long-unit Rail-cum-Road Steel Truss Bridge	LIU Guofei(86)

Tunnel and Underground Works

Causes and Countermeasures of Cold Joints in Secondary Lining Construction of Railway Tunnel	MAN Shihao, et al(92)
Simulation Study on Parameters of Rectangular Vibration Reduction Tunnel in Urban Rail Transit.....	AN Yachao, et al(97)
Adaptability of Water Drainage and Plugging Measures for Tunnel in Water-rich Silty Fine Sandstone Stratum	WAN Xiaolin, et al(101)
Analysis and Application of Displacement Monitoring Data of Large Deformation Tunnel Based on BP Neural Network Algorithm	LIU Bofeng(106)
Technology of TBM Passing Through Subway Station Under Condition of Overlapping Arrangement of Traffic Tunnel.....	YANG Dongmei(110)
Mechanism and Experiment Research of Tunnel Peripheral Hole Differential Blasting	KANG Yongquan, et al(114)

Subgrade · Foundation

Determination Method and Abnormal Treatment of Reminder Threshold Value of Subgrade Settlement Rate of Newly Built High Speed Railway	LIU Junfei(118)
Mechanical Response of Ballastless Track-Aphalt Concrete Pavement Subgrade Structure Under High Speed Train Load	KONG Fanyue(122)
Experimental Study on Bearing Characteristics of Variable Cross-section Bottom-end-expanded Bolt in Silty Clay	DONG Jie, et al(127)
Bearing Characteristics and Settlement Analysis of Screw Cast-in-place Pile Composite Foundation in Loess Region	MA Zhiyong(133)
Renovation Techniques of Subgrade Settlement in Wuxi-Kuitun Section of Lanzhou-Urumqi Railway Under Speed-raising Condition	JIA Haifeng, et al(138)
Application of GPR Technology in Subgrade Subsidence Detection of Beitongpu Railway	HU Zailiang , et al(142)