

中国中文核心期刊 中国科技核心期刊  
中国科学引文数据库(CSCD)来源期刊

ISSN 1672-7029  
CN43-1423/U

# 铁道科学与工程学报

JOURNAL OF RAILWAY SCIENCE AND ENGINEERING

2013 2  
Vol. 10 No. 2

ISSN 1672-7029



9 771672 702134

中南大学 主办  
中国铁道学会

2004 年创刊

2013

# 铁道科学与工程学报

JOURNAL OF RAILWAY SCIENCE AND ENGINEERING

双月刊

2

总第 52 期 4 月出版

## 目 次

- 
- 湛河提篮式拱桥空间弹性稳定性分析 ..... 陈淮, 杨磊(1)  
考虑徐(温)变效应的列车与连续梁-框架墩桥耦合振动分析 ..... 苗永抗, 尹邦武, 郭向荣(5)  
斜拉-连续刚构组合梁桥车-桥耦合动力响应分析 ..... 尹邦武, 苗永抗, 郭向荣(11)  
高速公路空心板桥加宽改造刚度渐变技术 ..... 李静斌, 陈淮, 李亚龙(18)  
西水大桥大跨度连续箱梁桥斜交高墩日照温度效应分析 ..... 胡立华, 李德建, 陈建平, 王黛(23)  
刚构-连续梁桥船撞桥墩最不利位置及安全性评价 ..... 胡先春, 李德建, 宁夏元, 吴超(30)  
钢轨在动载荷作用下的动应力响应特性分析 ..... 曹玉, 黄志辉, 李屹罡, 杨星星(36)  
单元双块式无砟轨道土工布设置研究 ..... 韦有信, 杨斌, 亓伟, 郑爱国(42)  
基于可靠度的斜坡软弱地基路堤稳定性极限平衡法分析 ..... 蒋鑫, 朱奇炯, 蒋怡, 邱延峻(47)  
改进的动态灰色模型在高铁路基变形预测中的应用 ..... 张玉芝, 杜彦良, 孙宝臣(56)  
CRTS I 型水泥乳化沥青砂浆各组成对其性能的影响 ..... 贾恒琼, 魏翌, 吴韶亮, 李洪刚(62)  
高速铁路无砟轨道填方路堤病害加固设计与效果分析 ..... 董炬洪, 赵志刚(66)  
大型通航渡槽框架式挡水墙断缝设置研究 ..... 胡文喜, 郭文华, 刘美龙(74)  
不同设计参数下刚构-连续组合曲线梁桥地震响应敏感性分析 ..... 揭志羽, 卫星, 李亚东, 顾颖(80)  
纯黏土坡三维动态上限分析 ..... 王路路, 潘秋景, 杨小礼(87)  
基于动态设计理念的江洲深基坑内支撑优化设计 ..... 王薇, 罗超, 李享松, 黄昌洋, 何波(90)  
列车运行图稳定性研究综述 ..... 孟学雷, 徐杰, 贾利民(96)  
引入时间紧迫系数的应急物资运输路径优化 ..... 杨菊花, 朱昌锋, 田志强(103)  
货物列车运行引起的大地振动及其对精密仪器的影响 ..... 张鹏飞, 雷晓燕, 高亮, 刘庆杰(108)  
基于拟合法与 Douglas 算法的铁路纵断面自动设计 ..... 陈燕平(114)  
基于 Zigbee 技术接触网电连接线夹温度监测装置的研究 ..... 郑箭峰, 傅勤毅(119)  
大型马戏馆钢结构屋顶防火保护分析 ..... 游素珍(124)

---

编辑总成:晏绍明      责任编辑:阳丽霞      英文编审:杨小礼      封面设计:刘 谊

期刊基本参数: CN43 - 1423/U \* 2004 \* b \* A4 \* 128 \* zh \* P \* ¥18.00 \* 1500 \* 22 \* 2013 - 04

# JOURNAL OF RAILWAY SCIENCE AND ENGINEERING

Vol. 10 No. 2

( Sum 52 )

Apr. 2013

## CONTENTS

- Spatial elastic stability analysis of the Zhanhe X - style arch bridge ..... CHEN Huai, YANG Lei(1)
- Vehicle - bridge coupling vibration analysis of continuous beam - framework pier bridge considering concrete creep and temperature deformation ..... MIAO Yongkang, YIN Bangwu ,GUO Xiangrong(5)
- The vehicle - bridge coupling dynamic analysis of cable - stayed and continuous rigid - frame composite beam bridge ..... YIN Bangwu, MIAO Yongkang, GUO Xiangrong(11)
- Construction technology of stiffness gradient for widening reconstruction of hollow plate bridge of highway ..... LI Jingbin, CHEN huai, LI Yalong(18)
- High skew pier sunlight temperature effect analysis of Youshui large span continuous box girder bridge ..... HU Lihua, LI Dejian, CHEN Jianping, WANG Dai(23)
- The most unfavorable position of vessel - pier collision and safety evaluation for rigid frame - continuous beam bridge ..... HU Xianchun, LI Dejian, NING Xiayuan, WU Chao(30)
- Analysis of dynamic stress response of rail under dynamic load ..... CAO Yu, HUANG Zhihui, LI Yigang, YANG Xingxing(36)
- Study on laying earthwork cloth between unity double - block ballastless track ..... WEI Youxin, YANG Bin, QI Wei, ZHENG Aiguo(42)
- Stability analysis of embankment over sloped weak ground with limit equilibrium method based on reliability ..... JIANG Xin, ZHU Qijiong, JIANG Yi, QIU Yanjun(47)
- Application of improved dynamic grey model in high - speed railway bed settlement prediction ..... ZHANG Yuzhi, DU Yanliang, SUN Baochen(56)
- Impacts of CRTS I type cement - emulsified asphalt mortar components on performance ..... JIA Hengqiong, WEI Zhao, WU Shaoliang, LI Honggang(62)
- Analysis of the strengthening design and for fill embankment disease of high - speed railway ..... DONG Juhong,ZHAO Zhigang(66)
- Break - joint setting for frame - type water retaining wall of large navigable aqueduct ..... HU Wenxi, GUO Wenhua, LIU Meilong(74)
- The seismic response sensitivity analysis of rigid - frame continuous combined curve bridge with different design parameters ..... JIE Zhiyu, WEI Xing, LI Yadong, GU Ying(80)
- Dynamic upper bound limit analysis for cohesive three - dimensional soil slopes ..... WANG Lulu, PAN Qiujiang, YANG Xiaoli(87)
- Optimization design of internal support of deep excavation located in river island based on dynamic design philosophy ..... WANG Wei, LUO Chao, LI Xiangsong, HUANG Changyang, HE Bo(90)
- Review on train timetable stability ..... MENG Xuelei, XU Jie, JIA Limin(96)
- Transport path optimization for emergency material considering the time urgent coefficient ..... YANG Juhua,ZHU Changfeng, TIAN Zhiqiang(103)
- Study on the ground vibration and its impact on precision instruments induced by freight train ..... ZHANG Pengfei, LEI Xiaoyan, GAO Liang, LIU Qingjie(108)
- Railway vertical section automatic design based on fitting process and douglas algorithm ..... CHEN Yanping(114)
- Analysis of temperature monitoring device for catenary electrically connecting clamp based on Zigbee technology ..... ZHENG Jianfeng, FU Qinyi(119)
- Analysis on fire protection for steel structure roof of large - scale circus museum ..... YOU Suzhen(124)