

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

2014 **2**  
Vol. 11 No. 2

ISSN 1672-7029



9 771672 702141

万方数据

中南大学 主办  
中国铁道学会

## 目 次

钢-混凝土连续组合箱梁负弯矩区极限抗弯承载力研究 .....	余志武, 张大付, 焦姣(1)
重载列车与既有铁路简支梁桥的适应性研究 .....	戴公连, 朱俊樸, 闫斌(7)
高速列车经过时作用在跨线天桥风压力数值模拟 .....	郑修凯, 杨娜, 张建(14)
横风作用下高速列车-32 m 简支梁桥系统气动性能三维数值模拟 .....	赖慧蕊, 何旭辉, 冉瑞飞, 杜风宇(21)
曲率半径对矮塔斜拉桥车桥耦合振动影响研究 .....	黎曙文, 郭向荣, 尹邦武(28)
斜交高墩大跨度连续箱梁桥动力特性及其颤振分析 .....	胡立华, 李德建(35)
氯盐环境下考虑温湿度影响的钢筋混凝土梁桥二维扩散模型及可靠度分析 .....	陈强, 彭建新(41)
框架结构-基础-地基共同作用的三维有限元分析 .....	徐祥, 戴自航(46)
考虑土水特性的非饱和土地基沉降特性数值分析 .....	冯君, 巫锡勇, 朱宝龙, 徐静(54)
含软弱夹层边坡稳定性的极限分析上限解析 .....	汤祖平, 李亮, 赵炼恒, 周烽森(60)
考虑软质岩体支撑作用的危岩稳定性分析 .....	王林峰, 陈洪凯, 唐红梅(65)
不同初始静态荷载下 CA 砂浆动态抗压特性试验研究 .....	徐浩, 李悦, 赵坪锐, 曾晓辉, 王平(71)
高速铁路粗粒土填料动力参数试验研究 .....	邓国栋, 张家生, 王启云, 石熊, 王佳(76)
移动荷载作用下沥青路面结构时程响应分析 .....	蒋建国, 何金龙, 梁洪涛(84)
铁路路基压实质量检测指标 $CMV$ 与 $E_{vd}$ 的相关性校检 .....	窦鹏, 聂志红, 王翔(90)
某超大直径断面顶管施工引起的地层位移分析 .....	王剑, 邓宗伟(95)
浅埋盾构隧道管片设计荷载的确定 .....	段坚堤, 傅鹤林, 张敬宇, 孙明国(101)
隧道洞口边仰坡稳定性分析及防护 .....	唐小富, 吴卫, 王亮(106)
基于波士顿矩阵法的铁路快捷货运产品结构及营销策略分析 .....	帅斌, 汤玲玲, 黄丽霞(111)
面向运行平稳性的铁道车辆悬挂参数灵敏度分析 .....	杨岳, 张晓峰, 张兆丰, 徐勇(116)
矿用载人快速轨道车设计及动力学分析 .....	宁永芳, 高广军(121)
钢轨打磨车打磨力波动抑制方法研究 .....	段小龙, 胡军科, 方健康, 彭克立(125)
武广高铁定位器坡度算法研究 .....	常 丽, 李丰良, 年晓红(131)
新建海南东环铁路精密测量控制网 .....	周勇(136)

责任编辑: 蒋学东, 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 \* 142 \* zh \* P \* ¥18.00 \* 1500 \* 24 \* 2014-04

## CONTENTS

- Research on ultimate flexural bearing capacity of negative moment area for steel – concrete composite continuous box girder ..... YU Zhiwu, ZHANG Dafu, JIAO Jiao(1)
- The adaptability research of heavy haul trains and existing railway simply – supported bridge ..... DAI Gonglian, ZHU Junpu, YAN Bin(7)
- Numerical simulation of wind pressure on cross – line bridges due to pass of high – speed trains ..... ZHENG Xiukai, YANG Na, ZHANG Jian(14)
- Three – dimensional numerical simulation analysis of high – speed train and 32 m simply – supported beam bridge under crosswind ..... LAI Huirui, HE Xuhui, RAN Ruifei, DU Fengyu(21)
- Research on the influence of curvature radius on vehicle – bridge coupled vibration of extradosed cable – stayed bridge ..... LI Shuwen, GUO Xiangrong, YIN Bangwu(28)
- Analysis of dynamic characteristics and flutter for large span continuous box girder bridge with high skew piers ..... HU Lihua, LI Dejian(35)
- Two – dimensional diffusion model and reliability analysis of reinforced concrete beam bridges considering temperature and humidity effect under chloride circumstance ..... CHEN Qiang, PENG Jianxin(41)
- 3D finite element analysis of interaction of frame structure – foundation – soil ..... XU Xiang, DAI Zihang(46)
- Numerical analysis of the settlement characteristics for unsaturated soil foundation considering soil water characteristics ..... FENG Jun, WU Xiyong, ZHU Baolong, XU Jing(54)
- Stability analysis of slopes with weak interlayer based on upper bound limit analysis ..... TANG Zuping, LI Liang, ZHAO Lianheng, ZHOU Fengmiao(60)
- Stability analysis of perilous rock considering soft rock mass’s support ..... WANG Linfeng, CHEN Hongkai, TANG Hongmei(65)
- Experimental study on dynamic compressive properties of CA mortar with different initial static loading ..... XU Hao, LI Yue, ZHAO Pingrui, ZENG Xiaohui, WANG Ping(71)
- Experimental research on dynamic parameters of high – speed railway coarse – grained padding ..... DENG Guodong, ZHANG Jiasheng, WANG Qiyun, SHI Xiong, WANG Jia(76)
- Analysis of time – history responses of asphalt pavement structure under moving load ..... JIANG Jianguo, HE Jinlong, LIANG Hongtao(84)
- Correlation verification of railway subgrade compaction quality test value between  $CMV$  and  $E_{vd}$  ..... DOU Peng, NIE Zhihong, WANG Xiang(90)
- Analysis of ground surface settlement due to pipe jacking of super – large cross sections ..... WANG Jian, DENG Zongwei(95)
- Determination of shallow load design of shield tunnel segment ..... DUAN Jiandi, FU Helin, ZHANG Jingyu, SUN Mingguo(101)
- Slope stability of tunnel entrance and protection ..... TANG Xiaofu, WU Wei, WANG Liang(106)
- Analysis of railway express freight transport product structure and marketing strategy based on Boston matrix method ..... SHUAI Bin, TANG Lingling, HUANG Lixia(111)
- Sensitivity analysis of railway vehicle suspension parameters on riding stability ..... YANG Yue, ZHANG Xiaofeng, ZHANG Zhaofeng, XU Yong(116)
- Structure design and dynamic analysis of passenger car ..... NING Yongfang, GAO Guangjun(121)
- Research on grinding force fluctuation suppression methods of rail grinding train ..... DUAN Xiaolong, HU Junke, FANG Jiankang, PENG Keli(125)
- Research on gradient algorithm of registration arm in Wuguang high – speed railway ..... CHANG Li, LI Fengliang, NIAN Xiaohong(131)
- The precise survey control network of Hainan east ring railway ..... ZHOU Yong(136)

# 铁道科学与工程学报

TIEDAO KEXUE YU GONGCHENG XUEBAO

(双月刊,2004年创刊)

第11卷第2期(总第58期)

2014年4月28日出版

JOURNAL OF RAILWAY SCIENCE AND ENGINEERING

(Bimonthly, Started in 2004)

Vol.11 No.2 (Sum 58)

Apr. 28, 2014

主管单位 中华人民共和国教育部  
主办单位 中南大学  
中国铁道学会  
主 编 陈春阳  
副 主 编 彭超群  
出版单位 《铁道科学与工程学报》编辑部  
印 刷 湘潭市霞城社会福利印刷有限公司  
国内总发行 长沙市报刊发行局  
国内订购处 全国各地邮局  
国外总发行 中国国际图书贸易总公司  
(100044 北京 399 信箱)  
编辑部地址 长沙市韶山南路 22 号  
(邮政编码:410075)  
电子邮箱 jrse@mail.csu.edu.cn  
电 话 (0731)82655133,82656536  
传 真 (0731)82655133

Administrated by Ministry of Education, P.R.China  
Sponsored by Central South University  
China Railway Society  
Chief Editor CHEN Chunyang  
Deputy Chief Editor PENG Chaoqun  
Published by Editorial Office of Journal of  
Railway Science and Engineering  
Distributed Abroad by China International  
Book Trading Corporation  
(P.O.Box 399, Beijing, China)  
Address: 22 Shaoshan South Road,  
Changsha, China, 410075  
E-mail: jrse@mail.csu.edu.cn  
Tel: +86-731-82655133 or 82656536  
Fax: +86-731-82655133

ISSN 1672-7029

CN 43-1423/U

邮发代号:42-59

定价:18.00元