



ISSN 1672-7029

CN43-1423/U

铁道科学与工程学报

Journal of Railway Science and Engineering

February 2019

Volume 16 Number 2



中南大学 主办
中国铁道学会

万方数据

铁道科学与工程学报

Volume 16 Number 2

February 2019 Pages 277-556

目次

高速铁路技术

- 高温荷载下 CRTS II 型板式轨道上拱变形特性研究.....赵林, 刘学毅, 毕澜潇, 李京生(277)
- 基于钢垫梁的 CRTS II 型板式无砟轨道支承层修复技术研究.....黄传岳, 李传勇, 谭社会, 易忠来, 王永华(287)
- 宝兰客专路堤段地面振动特性试验研究与数值分析.....马骥骥, 李斌, 王东, 白广明(294)
- 基于高速列车振动荷载的桩-土-结构相互作用分析.....熊辉, 谷亚东(302)
- 不同需求日高铁列车开行方案协同优化方法.....龙品秀, 史峰, 胡心磊, 徐光明(310)
- 基于收益管理的高铁动态定价方法.....徐彦(319)

轨道与基础

- 锯齿互锁式沉降自动补偿钢枕结构强度分析.....张鹏飞, 朱勇, 雷晓燕, 胡启平(326)
- 基于车辆走行性能的 9 号直线型道岔允许通过速度研究.....李晨钟, 陈嵘, 陈嘉胤, 徐井芒, 王平, 罗信伟(332)
- 土坡稳定分析中考虑参数变异水平的分项系数取值.....李昂, 罗强, 张文生, 蒋良淮, 张良(341)
- 基于有限元极限上限法的含软弱夹层边坡稳定性分析.....皮晓清, 李亮, 唐高朋, 张锐, 赵炼恒(351)
- 含水率与粒径对非饱和砂土动力特性影响的试验研究.....王海东, 翁芬芬, 蔡长丰(359)
- 随机地貌岩石节理剪切破坏分析.....曹平, 唐国栋, 范文臣(367)
- 不锈钢纤维对超高性能混凝土的性能影响研究.....黄政宇, 李旦(376)
- 再生砖骨料砌块砌体的基本力学性能试验研究.....曹文权, 黄靓, 高琦, 包堂堂, 李福安, 李隐(384)

桥梁隧道与结构

- 铁路桥梁弹塑性护栏设计及碰撞仿真研究.....高广军, 陈功, 关维元, 吴永军(391)

- 切口型式对正交异性钢桥面板应力特性的影响.....向泽, 祝志文(399)
- 变截面薄壁箱梁剪力滞计算的板元梁段法.....李林安, 耿文宾, 刘习军, 张庆, 周聪(408)
- 钢管混凝土系杆拱桥静力参数敏感性分析.....龙汉, 刘剑(419)
- 隧道围岩变形预测模型的优化与应用.....陈永雄, 吴小萍, 郜成成, 雷坚, 刘国龙, 成伟光(426)
- 双向聚能光面爆破周边眼参数确定的新方法.....耿大新, 陶彪, 于洋, 黄龙华(435)
- 基于极限分析的进尺对隧道掌子面稳定性影响.....安永林, 李佳豪, 曹前, 岳健, 欧阳鹏博(443)
- 盾构管片接头破坏类型及参数敏感性分析.....张平平, 杨伟超, 尹荣申, 邓锆(450)
- 朝阳站富水砂卵石层施工动态降水控制技术研究
.....娄平, 赵星, 汤卓, 倪志国, 唐治, 陈杰欣, 李卓, 徐庆元(457)
- 钢筋沥青隔震层弹性极限状态方程研究.....尚守平, 宋炼(464)
- 吊弦振动频率及幅度对疲劳寿命的影响分析.....彭培火, 陈立明, 王伟, 何凡(471)

机车车辆与设备

- 基于 6σ 的动车组转向架构架非概率可靠性分析.....智鹏鹏, 陈秉智, 李永华, 宋雪萍(478)
- 客车振动舒适性评价方法在瞬变风环境下的应用.....曹天培, 鲁寨军, 钟睦, 刘东润(487)
- 铁路风速风向传感器动态响应特性实验研究.....王哲, 孙博, 鲁寨军, 李田, 盖增杰(494)
- 一种基于人工神经网络算法的谐波多路同步快速检测装置.....陈有根, 李晓光, 郭海涛, 李志勇(501)
- 一种考虑中点偏移的三电平逆变器容错控制策略.....毛炳奎, 成庶, 陈特放, 向超群(509)

运输·物流·工程管理

- 考虑旅客需求的停站方案与列车运行图一体化模型与算法.....刘璐, 孟令云, 李新毅, 刘岗(518)
- 基于元胞自动机的城市道路冲突车流建模.....吴玉丽, 陈群(528)
- 基于排队论的中硬围岩长大隧道施工机群优化配置方法.....曹豪荣, 彭立敏, 杜昆, 雷明锋, 刘瑶(535)
- 基于 BIM 技术的交通枢纽工程消防管理信息系统.....邓铁军, 吉韵芝, 邓红波(542)
- 高速公路 PPP 项目贷款融资决策研究.....曾晓, 雷定猷, 张英贵, 刘青意(550)

责任编辑: 蒋学东 英文编审: 肖源杰 封面设计: 刘 谊

期刊基本参数: CN43-1423/U*2004*m*A4*280*zh*P*¥50.00*1500*35*2019-02

CONTENTS

High-speed Rail Technology

- Study on upwarp deformation characteristics of CRTS II prefabricated track slab under high temperature load
.....ZHAO Lin, LIU Xueyi, BI Lanxiao, LI Jingsheng(277)
- Research on repairing technology of supporting layer of CRTS II ballastless track bed in high speed railway based on steel bearing beam.....HUANG Chuanyue, LI Chuanyong, TAN Shehui, YI Zhonglai, WANG Yonghua(287)
- Experimental study and numerical analysis on ground vibration characteristics of subgrades section of Baoji-Lanzhou high-speed railway.....MA Kuikui, LI Bin, WANG Dong, BAI Guangming(294)
- Pile-soil-structure interaction analysis based on high-speed train vibration load.....XIONG Hui, GU Yadong(302)
- The collaborative optimization of multi-day line plannings for high-speed railway
.....LONG Pinxiu, SHI Feng, HU Xinlei, XU Guangming(310)
- Dynamic pricing method for high-speed railway based on revenue management.....XU Yan(319)

Track and Foundation

- Structural strength analysis of serrated interlocking steel sleeper with settlement compensation automatically
.....ZHANG Pengfei, ZHU Yong, LEI Xiaoyan, HU Qiping(326)
- Research on the permissible velocity of No.9 straight switch rail based on the vehicle running behavior
.....LI Chenzhong, CHEN Rong, CHEN Jiayin, XU Jinmang, WANG Ping, LUO Xinwei(332)
- Discussion on the value of partial factors considering variation level of geotechnical parameter in slope stability analysis
.....LI Ang, LUO Qiang, ZHANG Wensheng, JIANG Liangwei, ZHANG Liang(341)
- Stability analysis for soil slopes with weak interlayers using the finite element upper bound limit analysis
.....PI Xiaoqing, LI Liang, TANG Gaopeng, ZHANG Rui, ZHAO Lianheng(351)
- Effects of particle size and moisture content on dynamic characteristics of unsaturated sandy soil
.....WANG Haidong, WENG Fenfen, CAI Changfeng(359)
- Shear failure analysis of rock joint with random morphology.....CAO Ping, TANG Guodong, FAN Wenchen(367)
- Study on the effect of stainless steel fiber on the performance of ultra-high performance concrete.....HUANG Zhengyu, LI Dan(376)
- Experimental study on the basic mechanical properties of recycled brick aggregate masonry
.....CAO Wenquan, HUANG Liang, GAO Qi, BAO Tangtang, LI Fuan, LI Yin(384)

Bridge, Tunnel and Structure

- Design of elastic-plastic guardrail on the railway bridge and its crash simulation study
.....GAO Guangjun, CHEN Gong, GUAN Weiyuan, WU Yongjun(391)

- Effects on stress behavior of orthotropic steel bridge deck from cutout types.....XIANG Ze, ZHU Zhiwen(399)
- Board beam segment method for calculating shear lag of thin-walled box girder with variable section
.....LI Linan, GENG Wenbin, LIU Xijun, ZHANG Qing, ZHOU Cong(408)
- Static parameter sensitivity analysis of concrete-filled steel tubular tied arch bridge.....LONG Han, LIU Jian(419)
- Optimization and application of prediction method of tunnel surrounding rock deformation
.....CHEN Yongxiong, WU Xiaoping, GAO Chengcheng, LEI Jian, LIU Guolong, CHENG Weiguang(426)
- New method for calculation of tunnel smooth blasting contour hole parameters
.....GENG Daxin, TAO Biao, YU Yang, HUANG Longhua(435)
- Influence of excavation footage on tunnel face stability using limit analysis
.....AN Yonglin, LI Jiahao, CAO Qian, YUE Jian, OUYANG Pengbo(443)
- Failure type and parameter sensitivity analysis of shield segment joint
.....ZHANG Pingping, YANG Weichao, YIN Rongshen, DENG E(450)
- Study on dynamic dewatering control technology for water-rich sandy gravel layer in Chaoyang station
.....LOU Ping, ZHAO Xing, TANG Zhuo, NI Zhiguo, TANG Zhi, CHEN Jiexin, LI Zhuo, XU Qingyuan(457)
- Research on stability of resilience of reinforced asphalt isolated layer.....SHANG Shouping, SONG Lian(464)
- The effect of frequency and amplitude of dropper on its fatigue life.....PENG Peihuo, CHEN Liming, WANG Wei, HE Fan(471)

Vehicles and Equipment

- Non-probabilistic reliability analysis based on six sigma of MEU bogie frame
.....ZHI Pengpeng, CHEN Bingzhi, LI Yonghua, SONG Xueping(478)
- Application of passenger car vibration comfort evaluation method under transient wind
.....CAO Tianpei, LU Zhaijun, ZHONG Mu, LIU Dongrun(487)
- Experimental study on dynamic responses of railway wind speed and direction sensor
.....WANG Zhe, SUN Bo, LU Zhaijun, LI Tian, GAI Zengjie(494)
- Harmonic multi-channel synchronous rapid detection device based on artificial neural network algorithm
.....CHEN Yougen, LI Xiaoguang, GUO Haitao, LI Zhiyong(501)
- A fault tolerant control strategy considering mid-point offset for three-lever inverter
.....MAO Bingkui, CHENG Shu, CHEN Tefang, XIANG Chaoqun(509)

Transportation · Logistics · Engineering Management

- Integrated optimization of stopping pattern and train timetable for passenger demand
.....LIU Lu, MENG Lingyun, LI Xinyi, LIU Gang(518)
- Cellular automata simulation of traffic conflict on urban road.....WU Yuli, CHEN Qun(528)
- Optimal allocation of long tunnel construction machinery groups in middle hard surrounding rock based on queuing theory
.....CAO Haorong, PENG Limin, DU Kun, LEI Mingfeng, LIU Yao(535)
- Fire management information system of traffic hubs based on BIM technology.....DENG Tiejun, JI Yunzhi, DENG Hongbo(542)
- Research on loan financing decision of the highway PPP project.....ZENG Xiao, LEI Dingyou, ZHANG Yinggui, LIU Qingyi(550)