



铁道工程学报
TIEDAO GONGCHENG XUEBAO
2011年5月 第5期
(总第152期)

目次

长大干线

工程地质

TSP203 Plus超前地质预报系统在高竹顶隧道断层中的应用 胡辉荣, 于 贵 (1)

瓦窑坡隧道岩溶地质超前预报 窦 顺, 侯殿英 (5)

滑坡整治工程后评价分析 耿 强, 曹集士, 巫锡勇 (9)

渝湘高速公路某顺层滑坡渐进破坏机制及防治措施研究 吴 坤 (13)

有限元极限平衡法在三维边坡中的应用研究 李红军, 邵龙潭 (17)

路基工程

动荷载下软土路基变形规律研究 刘升传, 曹 渊, 杨志文 (22)

高速铁路无砟轨道红黏土地基沉降计算方法 杨 啸, 杨果林 (27)

哈大高速铁路新营口车站组合桩复合地基的应用研究 张先军, 赵世运 (34)

柴木铁路片石通风措施的工程效果分析 陈 继, 宋瑞芳, 盛 煜, 等 (40)

线路与轨道

曲线轨道不平顺对车辆动力响应影响仿真研究 房 建, 雷晓燕, 练松良, 等 (45)

桥梁工程

成灌城际铁路桥上周期性高低不平顺分析 杨 飞, 宋国华, 黎国清 (51)

高速公路扩建工程桥梁拼接施工技术研究 邢方义 (56)

隧道工程

大瑞铁路高黎贡山隧道热害评估 侯新伟, 李向全, 蒋良文, 等 (60)

基于纵向不均匀沉降的盾构隧道渗漏水机理分析 刘 印, 张冬梅, 黄宏伟 (66)

公路隧道节能减排对策 王少飞, 涂 耘, 邓 欣 (71)

电气化工程

高速铁路供电系统安全性评估研究 丁坚勇, 孙建明, 张华志, 等 (76)

城市轨道交通

地铁车站深基坑开挖监测与数值分析 霍润科, 颜明圆, 宋战平 (81)

深软场地地铁车站深基坑开挖变形实测分析 庄海洋, 吴祥祖, 瞿英军 (86)

昆明地铁盾构选型设计分析与探讨 梁 波 (92)

青岛地铁隧道爆破开挖振动控制研究 薛 里, 孙付峰, 施炎龙, 等 (98)

工程经济与管理

对建筑市场突出问题和竞争秩序的分析与探讨 杨宗林 (102)

基于系统工程的铁路工程项目闭环管理模式研究 杨亚伟 (106)

BT投融资建设中有关法律问题的分析 吴 青 (110)



CONTENTS

Main Line

Engineering Geology

- Application of Advanced Geological Prediction System TSP203 Plus in Advanced Geological Prediction of Fault for Construction of Gaozhuding Tunnel HU Hui-rong, YU Gui(1)
- Advanced Karst Geological Forecast Area for Wayaopo Tunnel DOU Shun, HOU Dian-ying(5)
- Post-evaluation Analysis of Landslide Treatment GENG Qiang, CAO Ji-shi, WU Xi-yong(9)
- Study on Progressive Failure Mechanism and Repair Measures for a Consequent Landslide WU Kun(13)
- Application of Three-Dimensional Finite Element Method Limit Equilibrium Method for Slope Stability Analysis LI Hong-jun, SHAO Long-tan(17)

Subgrade Engineering

- Study on the Deformation Behavior of Soft Soil Subgrade under Dynamic Load LIU Sheng-chuan, CAO Yuan, YANG Zhi-wen(22)
- Red Clay Subgrade Settlement Calculation Methods in Ballastless Track Design on High-speed Railway YANG Xiao, YANG Guo-lin(27)
- Research on Application of Composite Foundation of Composite Pile for New Yingkou Station of Harbin-Dalian High-speed Railway ZHANG Xian-jun, ZHAO Shi-yun(34)
- Cooling Effect of Measures for Rubble Subgrade Convection of Chaidao-Muli Railway CHEN Ji, SONG Rui-fang, SHENG Yu, *et al.*(40)

Railway and Rail

- Simulation Study on Impact of Track Irregularity on Dynamic Response of Vehicle FANG Jian, LEI Xiao-yan, LIAN Song-liang, *et al.*(45)

Bridge Engineering

- Analysis of Periodic Track Irregularities on the Bridges of Chengdu-Dujiangyan Intercity Railway YANG Fei, SONG Guo-hua, LI Guo-qing(51)
- Research on Bridge Splicing Technology for Expressway Extension Project XING Fang-yi(56)

Tunnel Engineering

- Estimation of Heat-harm of Gaoligong Mountain Tunnel of Dali-Ruili Railway HOU Xin-wei, LI Xiang-quan, JIANG Liang-wen, *et al.*(60)
- Analysis of Mechanism of Water Leakage Induced by Longitudinal Uneven Settlement of Shield Tunnel LIU Yin, ZHANG Dong-mei, HUANG Hong-wei(66)
- Countermeasures for Energy-saving and Emission Reduction of Highway Tunnel WANG Shao-fei, TU Yun, DENG Xin(71)

Electrification Engineering

- Research on Safety Assessment of High Speed Railway Power Supply System DING Jian-yong, SUN Jian-ming, ZHANG Hua-zhi, *et al.*(76)

Urban Rail Construction

- The Monitoring and Numerical Analysis of Deep Foundation in Subway Station HUO Run-ke, YAN Ming-yuan, SONG Zhan-ping(81)
- Analysis of the Construction Deformation of the Foundation Pit Excavated for Metro Station Built in Soft Site ZHUANG Hai-yang, WU Xiang-zu, QU Ying-jun(86)
- Analysis and Discussion on Shield Lectotype Design for Kunming Metro LIANG Bo(92)
- Research on Blasting Vibration Control of Tunnel Excavation of Qingdao Subway XUE Li, SUN Fu-feng, SHI Yan-long, *et al.*(98)

Engineering Economy and Management

- Analysis and Discussion on Prominent Problems of Current Construction Market and Normalization of Market Competition Order YANG Zong-lin(102)
- Research on System-engineering-based Closed Loop Management Mode for Railway Engineering Project YANG Ya-wei(106)
- Analysis of Legal Problems in Investing and Financing for BT Project WU Qing(110)