

目

次

桥梁与结构工程

- 8 度地震区矮墩大跨连续刚构桥受力分析与设计优化 冯利波 马 林(1)
- 基于增量动力分析方法的非对称独塔斜拉桥 H 形桥塔抗震性能评估 王 力 李子奇 冯 莉 等(4)
- 考虑剪力影响的多跨曲线连续梁桥径向位移解析分析 刘 英 邬晓光 钱若霖 等(7)
- 跨座式轨道梁横向自振频率的简化计算方法 周小苏(15)
- 偏压荷载对钢波纹管涵洞受力变形特性的影响 张树明 蒋关鲁 罗 斌 等(18)
- 朔黄重载铁路水中桥墩服役性能试验研究 尹成斐(24)
- 河道开挖和弃土堆载对邻近高速铁路桥梁的影响分析 倪 恒 刘翔宇 刘飞成(28)
- 参数化的铁路桥梁三维快速建模方法 郝 蕊 张敬涵 王辉麟 等(33)
- 预应力混凝土简支 T 形梁桥的动载试验研究 李 强 王起才 代金鹏 等(36)
- 沪通长江大桥 3×112 m 钢桁梁安装方案 赵 钰 崔一兵(39)
- 连盐铁路灌河特大桥主桥钢桁梁柔性拱施工关键技术 封仁博 洪 钊 崔太雷(42)
- 圆中空夹层钢管混凝土柱抗剪承载力计算研究 黄 宏 徐传国 杨 超 等(45)
- 既有重载铁路病害涵洞波纹板加固技术 尚培培(50)

隧道与地下工程

- 隧道近距离施工对上覆运营隧道的影响分析 扈士琰(54)
- 上方开挖时压顶梁对箱形地铁区间隧道纵向变形的控制效果 刘庭金 汪思聪 李 孟(57)
- 仰拱衬砌厚度不足对隧道结构安全性能的影响 王志杰 季晓峰(61)
- 大断面矩形混凝土顶管隧道管节接头结构研究 胡新朋(65)
- 富水岩石地层地铁区间隧道涌水治理技术 代维达(69)

路基与地基基础

基于 Fisher 分析的高速铁路地基膨胀土判别方法 李进前 王起才 张戎令 等(73)

关中地区重塑黄土强度特性三轴试验研究 李宝平 王 智 张 玉(78)

基于超声波模拟地震波的边坡地震动力响应研究 高明显(83)

黄土地区客运专线挤密群桩基础轴力及沉降分析 刘福春(86)

基于极限平衡法的高边坡稳定性分析及处治措施 乔 翔(89)

宜万线路基岩溶地质雷达快速探测试验与应用 王鹏越 郝丽生 刘 杰(94)

线路与养护维修

基于层次分析法和 Sigmoid 函数的高速铁路轨道平顺性综合评价模型 陈东生(97)

哈萨克斯坦阿斯塔纳车站钢桥上无砟轨道设计 高增增(102)

隧道内 CRTS III 型板式无砟轨道自密实混凝土纵向连续方案研究 赵雅敏 王继军 赵 磊 等(105)

U75V 在线热处理尖轨廓形及伤损特征分析 张军政(110)

铁路用塑料轨枕与合成材料轨枕设计方法分析 尤瑞林 Érica Andrade Silva Sakdirat Kaewunruen(115)

铁路超重货物运输下轨道路基的静态响应 尹紫红 杨 明 朱 波 等(121)

CRTS II 型板式无砟轨道底座板受力性能分析 张长生(125)

地震作用下基于场地条件的高速列车行车安全性 曾鹏毅 张建经 刘飞成(128)

川藏铁路沿线滑坡灾害易损性评价 丁朋朋 杨宗佶 游 勇 等(133)

工程材料及其他

石粉含量对机制砂颗粒形貌参数的影响 李 艳 任永华 黄法礼 等(139)

泡沫轻质混凝土浇筑效果影响因素及机理分析 苏 谦 姜瑞雪 赵文辉 等(143)

混凝土收缩徐变预测模型对比分析 王永宝 贾 毅 廖 平 等(146)

CONTENTS

Bridge and Structural Engineering

Force Analysis and Design Optimization of Large-span Continuous Rigid Frame Bridge with Short-piers in Eight Degree Earthquake Zone	FENG Libo, et al(1)
Assessment on Seismic Performance of H-shaped Pylon Based on IDA for Cable-stayed Bridge with Asymmetric Single Pylon	WANG Li, et al(4)
Analytical Solution of Radial Displacement of Multi-span Continuous Girder Bridge Considering Shear Force Effect	LIU Ying, et al(7)
A Simplified Calculation Method of Transverse Natural Vibration Frequency of Straddled Track Beam	ZHOU Xiaosu(15)
Influence of Unsymmetrical Load on Force and Deformation of Corrugated Steel Pipe Culvert	ZHANG Shuming, et al(18)
Experimental Study on Serviceability of In-water Piers on Shuozhou-Huanghuagang Heavy Haul Railway	YIN Chengfei(24)
Influence Analysis of River Excavation and Soil Heaping on the Adjacent High Speed Railway Bridge	NI Heng, et al(28)
Parameterization Modeling Based on 3D Railway Bridge Model by Rapid Establishment Method	HAO Rui, et al(33)
Dynamic Load Test Research on Prestressed Concrete Simply Supported T-shaped Girder Bridge	LI Qiang, et al(36)
Assembling Scheme of 3 × 112 m Steel Truss Girder of Shanghai-Nantong Yangtze River Bridge	ZHAO Yu, et al(39)
Key Construction Techniques of Main Span Steel Truss Girder Flexible Arch of Guanhe Super-long Bridge on Lianyungang-Yancheng Railway	FENG Renbo, et al(42)
Numerical Study on Shear Bearing Capacity of Concrete-filled Double-skin Circular Steel Tubular Column	HUANG Hong, et al(45)
Defect Culvert Reinforcement Technology Using Corrugated Plate on Existing Heavy Haul Railway	SHANG Peipei(50)

Tunnel and Underground Works

Influence of Tunnel Construction in Short Distance on Overlying Operating Tunnel	HU Shiyan(54)
Control Effect of Capping Beam on Longitudinal Deformation of Box Interval Metro Tunnel During Excavation Above	LIU Tingjin, et al(57)
Influence of Thickness Inadequacy of Invert Lining on Tunnel Structural Safety Performance	WANG Zhijie, et al(61)
Study on Segment Joint Structure of Concrete Pipe Jacking Tunnel with Large Rectangular Section	HU Xinpeng(65)
Tunnel Water Gushing Control Technology for Interval Metro in Water-rich Rock Stratum	DAI Weida(69)

Subgrade • Foundation

Discriminant Method of Expansive Soil in High Speed Railway Foundation Based on

Fisher Analysis *LI Jinqian, et al*(73)

Triaxial Test Study on Strength Characteristics of Remolded Loess in Guanzhong Area *LI Baoping, et al*(78)

Study on Slope Seismic Dynamic Response Based on Ultrasonic Simulation of

Seismic Wave *GAO Mingxian*(83)

Analysis of Axial Force and Settlement for Compacted Pile-group Foundation of

Passenger Dedicated Railway in Loess Area *LIU Fuchun*(86)

Stability Analysis and Treatment Measures of High Slope Based on

Limit Equilibrium Method *QIAO Xiang*(89)

Experiment and Application of Ground Penetrating Radar Rapid Detection for

Subgrade Karst of Yiwan Railway Line *WANG Pengyue, et al*(94)

Track and Its Maintenance

Comprehensive Evaluation Model of High Speed Railway Track Irregularity Based on

Analytic Hierarchy Process and Sigmoid Function *CHEN Dongsheng*(97)

Design of Ballastless Track on Steel Bridge in Kazakhstan Astana Railway Station *GAO Zengzeng*(102)

Study on Longitudinal-continuous Scheme of Self-compacting Concrete Layer for

CRTS III Slab Ballastless Track in Tunnel *ZHAO Yamin, et al*(105)

Analysis of Profile and Damage Features of Switch Rail Made of

U75V Online Heat Treatment Rail *ZHANG Junzheng*(110)

Design Method Analysis of Plastic Sleeper and Synthetic Material Sleeper for

Railway Use *YOU Ruilin, et al*(115)

Static Response of Railway Track Subgrade Under the Action of Overweight Goods *YIN Zihong, et al*(121)

Mechanical Behavior Analysis of CRTS II Slab Ballastless Track Base Plate *ZHANG Changsheng*(125)

High Speed Train Running Safety Based on Field Condition Under

Earthquake Action *ZENG Pengyi, et al*(128)

Vulnerability Evaluation on Landslide Hazards to Sichuan-Tibet Railway *DING Pengpeng, et al*(133)

Engineering Material and Others

Influence of Crusher Dust on Particle Shape Parameters of Machine-made Sands

..... *LI Yan, et al*(139)

Influence Factor and Mechanism Analysis for Pouring Effect of

Foamed Lightweight Concrete *SU Qian, et al*(143)

Comparison and Analysis of Prediction Model of Concrete Shrinkage and Creep *WANG Yongbao, et al*(146)