中文核心期刊 RCCSE中国核心学术期刊

 $\frac{\text{ISSN }1003\text{-}1995}{\text{CN }11\text{-}2027/\text{U}}$



RAILWAY ENGINEERING





中国铁道科学研究院 主办



2017年第5期(总第519期)



桥梁与结构工程

铁路钢桁梁桥结构校验系数研究	邓	蓉(1)
侧向堆载引起既有铁路桥梁桩基沉降变形的有限元分析	董	亮(7)
高烈度地震区长联大跨连续梁桥减隔震措施研究	张顺	鹏举(10)
拱桥钢管混凝土温度场分析	花丸	东强(13)
大温差寒冷地区钢管混凝土构件温度场分析 祁 强 张戎令 胡锐	鹏	等(16)
城市轨道交通连续 U 梁截面受力分析与优化设计	旲	炜(20)
基于 ANSYS 的钢-混凝土叠合梁斜拉桥施工段索力控制魏 华 刘红钊 王子	山	等(23)
振动频率法测量斜拉桥索力的影响因素研究 曹发源 虞庐松	翟启	启远(27)
振动台试验用横向钢阻尼装置设计与测试 张银喜 郝红肖 孔令	俊	等(31)
三盛公特大桥辊轴支座整治技术	Ŧ	悦(34)
节段梁预制施工技术	刘广	亠伟(37)
铁路桥梁用混凝土保护层垫块力学性能研究	李文	文秀(41)
密质细砂地层钢板桩围堰结构受力分析	强	等(44)
南宁枢纽工程邕江特大桥岩石层深水基础施工技术	严卓	朝锋(48)

隧道与地下工程

"十二五"期间铁路隧道工程安全事故分析)
带模注浆新型铁路隧道衬砌台车施工技术的优化 张秀文 张 欢 何玉书(55	;)
V级围岩深埋双线铁路隧道衬砌结构设计影响因素分析何永旺(58	;)
铁路膨展存物强 初期支护稳定性分析及设计优化 崔蓬勃 朱永全 高 焱 等(62	2)

矿山法隧道下穿既有盾构隧道微变形控制技术 陶连金 日	田治旺	车彦	文	等(67)
浅覆大直径越江盾构隧道施工阶段管片上浮分析及控制措施研究 曾学艺 刻	梁 禹	李	科	等(71)
宝兰客运专线二沟墩黄土隧道施工技术	罗	龙	王秉	勇(76)
一种基于爬壁机器人装置的隧道检测方法		•••••	陈东	生(79)
地质雷达应用于铁路隧道仰拱检测的可靠性研究	杜	胜	周	斌(83)
轨道交通工程安全质量风险管控状态评价及预警预测			李	琦(87)

路基与地基基础

严寒地区路基新型复合改良剂改良粉砂试验研究 张守超 张千里	. 王仲锦	等(91)
川藏铁路季节性冻土区粗颗粒土边坡温度场特征 赵永峰 谢 强	王子江	等(95)
高速铁路路基基底盐渍土抗溶陷措施	吴沛沛	等(100)
额哈铁路沿线石膏土的溶陷变形特性 租	鼎 霖 杨居	成永(104)
凯羊高速公路 RK9 滑坡形成机制及治理措施	程谦恭	等(109)

线路与养护维修

聚氨酯固化道床用聚氨酯材料使用寿命预测 朱 彦 韩 文 于大洲	每 等(113)
时速 250 km 客运专线 18 号道岔辙叉结构不平顺动力学分析	马锦生(118)
无缝道岔区应力分析与调整 毛 帅 韩清强 冬	≱玉平(122)
CRTS Ⅲ型轨道板先张流水机组法制造技术	贾宝红(127)
重载铁路混凝土轨枕磨损机制及修复技术	长海明(131)
新型钢轨固定式闪光焊接头焊后热处理设备及监控系统	昏新伟(134)

工程材料及其他

含气量对新拌及硬化自密实混凝土	土气泡间距系数的影响	•••••	 易忠来(138)
池州一黄山铁路速度目标值研究			 袁仁基(142)

2017年5月20日出版

万方数据

CONTENTS

Bridge and Structural Engineering

Research on Structural Verification Coefficient of Railway Steel Truss Girder Bridge DENG Rong(1)
Finite Element Analysis on Subsidence and Deformation of Existing Railway Bridge Pile
Foundation Caused by Lateral Heaped Load
Study on Seismic Isolation Measures of Long-span and Long-unit Continuous Girder Bridge in
High Intensity Earthquake Area
Concrete Temperature Field Analysis for Concrete-filled Steel Tubes Arch Bridge
Analysis of Temperature Field of CFST Members in Cold Area with
Large Temperature Difference
Mechanical Analysis and Optimum Design of Continuous Girder with
U-shaped Cross Section Used in Urban Rail Transit WU Wei(20)
Cable Force Control During Construction of Steel-concrete Composite Girder Cable-stayed
Bridge Based on ANSYS WEI Hua, et al (23)
Research on Affecting Factors of Cable Force Measurement of Cable-stayed Bridge by
Vibration Frequency Method CAO Fayuan, et al (27)
Design and Test of Transverse Steel Damper Device Used for Shaking Table Test
Treatment Technology for Roller Bearings of Sanshenggong Super Large Bridge WANG Yue(34)
Prefabricated Construction Technology of Segmental Girders LIU Guangwei(37)
Study on Mechanical Performances of Concrete Protective Layer Cushion Block for
Railway Bridge LI Wenxiu(41)
Mechanical Analysis of Steel Sheet Pile Cofferdam Structure in Dense Fine Sand Stratum
JIANG Tianhua, et al(44)
Construction Technology for Deep Water Foundation in Rock Stratum of Yongjiang River
Super Large Bridge of Nanning Hub Project

Tunnel and Underground Works

Analysis on Safety Accident of Railway Tunnel Engineering During the 12th
Five-Year Plan Period LI Qiang(51)
Optimization of Construction Technology of New Type Railway Tunnel Lining
Trolley with Mold Grouting
Lining Structure Design Influence Factor Analysis for Deep-buried Double-track
Railway Tunnel in V-class Surrounding Rock
Stability Analysis and Design Optimization for Preliminary Support of
Railwa万克教据g Rock Tunnel

Micro-deformation Control Technology for Tunnel Excavation with Mine Tunneling
Method Crossing Underneath Existing Shield Tunnel TAO Lianjin, et al (67)
Study on Segment Floating and Its Control Measures During Construction of
Large-diameter Cross River Shield Tunnel with Shallow Covering ZENG Xueyi, et al (71)
Construction Technology of Ergoudun Loess Tunnel in Baoji-Lanzhou
Passenger Dedicated Line
A Tunnel Detection Method Based on Wall-climbing Robot Device CHEN Dongsheng(79)
Reliability of Ground Penetrating Radar to Detect Railway Tunnel InvertDU Sheng, et al (83)
Evaluation on Risk Control State of Transit Project Safety Quality and
Early Warning-oriented Prediction LI Qi(87)

Subgrade • Foundation

Experimental Study on Silty-sand-improving Using New Compound Modifying Agent for
Subgrade in Severe Cold Area ZHANG Shouchao, et al(91)
Characteristics of Temperature Field of Coarse-grained Soil Slope in
Seasonal Frozen Soil Region Along Sichuan-Tibet Railway ZHAO Yongfeng, et al (95)
Resist Collapse Measures of Saline Soil Under High Speed Railway Subgrade ZENG Yonghong, et al (100)
Collapse Deformation Characteristics of Gypsum Soil Along Ejina-Hami Railway CHENG Lin, et al (104)
Formation Mechanism and Treatment Measures for RK9 Landslide on
Kaili-Yangjia Expressway WU Kun, et al(109)

Track and Its Maintenance

Service Life Prediction for Polyurethane Material Used in Polyurethane Solidified
Ballast Bed ZHU Yan, et al(113)
Dynamic Analysis on Frog Structure Irregularity of No. 18 Turnout for
250 km/h Passenger Dedicated Railway
Stress Analysis and Adjustment of Continuous Welded Turnout Zone
Manufacture Technology of Pretension Flow Unit Method for CRTS III Track Slab JIA Baohong(127)
Wear Mechanism and Repair Technology of Heavy Haul Railway Concrete Sleeper ZHANG Haiming(131)
New Equipment and Supervising System of Post-welding Heat Treatment for
Stationary Flash Welded Rail Joints

Engineering Material and Others

Influence of Air Content on Air-void Spacing Factors of Fresh and		
Hardened Self-compacted Concrete	YI Zhonglai(138	3)
Study on Speed Target Value of Chizhou-Huangshan Railway	YUAN Renji(142	2)