

目 次

· 结构分析 ·

- 箍筋约束混凝土本构模型对比研究及其在数值分析中的应用甘懿德(1)
- 基于火灾损伤的钢筋混凝土结构材料性能研究张士炼 崔伟龙 任命命 等(10)
- 考虑二次受力的 UHPC 加固混凝土圆截面桥墩轴压承载力研究李方元 周念球(19)
- 基于数字图像处理的混凝土梁变形与裂缝监测王瑞琳 张伟平 张舒婷 等(30)
- 基于三维数值模拟的钢渣堆载模式影响下工业厂房稳定性分析 ...王勇超 李 麟 惠学斌 等(41)
- 深水桥墩在波流作用下的动力响应分析周慧文 江 坤 高联斌 等(51)
- 基于递归量化分析和主成分分析的桥梁结构损伤识别方法张维锋 刘 威 刘鹏飞 等(64)
- 基于 VMD 算法的 HDPE 缠绕结构壁管局部破损点识别刘 湛 刘学佳 许明奎(70)
- FCM 分割下的高架桥梁铺面病害识别魏维维 张 勇(76)

· 抗震与抗风 ·

- 基于数值风洞模拟覆冰拉索驰振性能研究艾辉林 朱运龙(85)
- 分阶段耗能阻尼器力学性能与减震特性研究齐松鑫 李春光 王冲锋 等(92)
- 组合减震技术在某医院建筑中的应用研究张能伟 阮永辉(105)
- 小箱梁桥减震钢阻尼器低周疲劳性能分析吴文俊 庄 鑫 叶爱君(115)
- 复杂地形下建筑物地面粗糙度类别的确定徐旭东 沈国辉(124)

· 试验研究 ·

- Q420qd 钢疲劳损伤后的力学性能试验研究刘冰飞 苏庆田 徐晓青 等(131)
- 往复荷载作用下高强混凝土柱损伤性能尺寸效应试验研究赵 旭 解咏平 张亚敏 等(140)
- 地铁振动激励下声阻隔振支座减振效果实测分析朱 帅(150)
- 基于 LSTM 模型的桥梁振动信号降噪研究陈 迎 廖朝义 谭宗林 等(159)

· 地基基础 ·

- 土体加固与基坑开挖耦合作用下邻近地铁隧道变形特性研究华 建 王恩臣 梁志鑫 等(173)
- 水泥土复合管桩在天津密实砂土地基中的应用研究沈小俊 李 军 赵丹婷(183)

· 工程施工 ·

- 基于现状索力的大跨度斜拉桥分段换索方案研究高志朋(190)
- 预制构件吊装方案动态控制模型丁丽荣 金朋玮 杨毅超 等(199)

· 设计方法与研究 ·

- 苏州东站结构分析与设计钟建敏 王 伟(207)
- 某高烈度区大切角悬挑不规则结构设计与分析李志富 车顺利 贾俊明 等(218)
- 基于几何语义和国产图形引擎的铁路山岭隧道衬砌结构 BIM 设计齐成龙(226)

CONTENTS

• Structural Analysis •

- Comparative Study of Constitutive Models for Stirrup-Confined Concrete and Their Application in Numerical Analysis
.....GAN Yide (1)
- Research on Material Properties of Reinforced Concrete Structure Based on Damage After Fire
.....ZHANG Shilian Cui Weilong REN Mingming et al (10)
- Study on Axial Compression Capacity of Concrete Pier with Circular Section Strengthened by UHPC Considering Secondary Loading
.....LI Fangyuan ZHOU Nianqiu (19)
- Deformation and Crack Monitoring of RC Beams Based on Computer Digital Image Processing
.....WANG Ruilin ZHANG Weiping ZHANG Shuting et al (30)
- Analysis of the Effect of Steel Slag Stacking Pattern on the Stability of Industrial Plants
.....WANG Yongchao LI Lin HUI Xuebin et al (41)
- Study on Wave-Current Coupling Dynamic Response of Piers in Deep Water Environment
.....ZHOU Huiwen JIANG Kun GAO Lianbin et al (51)
- Damage Identification of Bridges Using Recurrence Quantification Analysis and Principal Component Analysis
.....ZHANG Weifeng LIU Wei LIU Pengfei et al (64)
- Identification of Local Damage Points in HDPE Wrapped Structure Wall Pipe Based on VMD Algorithm
.....LIU Zhan LIU Xuejia XU Mingkui (70)
- Identification of Pavement Damages on Elevated Bridges Using FCM SegmentationWEI Weiwei ZHANG Yong (76)

• Earthquake and Wind Resistance •

- Research on Galloping Performance of Ice-Covered Cables Based on Numerical Wind Tunnel Simulation
.....AI Huilin ZHU Yunlong (85)
- Study on Mechanical Properties and Damping Characteristics of Staged Energy Dissipation Damper
.....QI Songxin LI Chunguang WANG Chongfeng et al (92)
- Study on the Application of Combined Energy Dissipation Technology in a Hospital Building
.....ZHANG Nengwei RUAN Yonghui (105)
- Analysis of Low-Cycle Fatigue Performance of Steel Dampers for Small Box Girder Bridges
.....WU Wenjun ZHUANG Xin YE Aijun (115)
- Determination of Building Ground Roughness under Complex Terrain.....XU Xudong SHEN Guohui (124)

• Experiment Study •

- Experimental Study on Mechanical Properties of Q420qd Steel After Fatigue Damage
.....LIU Bingfei SU Qingtian XU Xiaoqing et al (131)
- Experimental Study on the Size Effect of Damage Behavior for High-Strength Concrete Columns under Low-Cyclic Reversed Loading
.....ZHAO Xu XIE Yongping ZHANG Yamin et al (140)
- Field Measurement and Analysis of Vibration Reduction Performance of Sound-Insulating Isolation Bearings under Metro-Induced ExcitationZHU Shuai (150)
- Research on Bridge Vibration Signal Denoising Based on LSTM Model
.....CHEN Ying LIAO Chaoyi TAN Zonglin et al (159)

• Foundation •

- Study on Tunnel and Soil Deformation Induced by Soil Reinforcement Construction and Adjacent Foundation Pit Excavation
.....HUA Jian WANG Enchen LIANG Zhixin et al (173)
- Study on Application of Cement-Soil Composite Pipe Pile in Dense Sandy Soil Foundation in Tianjin
.....SHEN Xiaojun LI Jun ZHAO Danting (183)

• Engineering Construction •

- Research on Segmented Cable Replacement Scheme for Long-Span Cable-Stayed Bridges Based on Current Cable Forces
.....GAO Zhipeng (190)
- Dynamic Control Model for Precast Components Hoisting Scheme.....DING Lirong JIN Pengwei YANG Yichao et al (199)

• Study of Design Method •

- Structural Analysis and Design of Suzhou East StationZHONG Jianmin WANG Wei (207)
- Design and Analysis of an Irregular Cantilever Structure with Large Tangent Angle in High Intensity Area
.....LI Zhifu CHE Shunli JIA Junming et al (218)
- BIM Design of Railway Mountain Tunnel Lining Structure Based on Geometric Semantics under Domestic Graphics Engine
.....QI Chenglong (226)