

# 工业建筑

ISSN 1000-8993

CN 11-2068/TU

CODEN GJIAE5



INDUSTRIAL CONSTRUCTION

中文核心期刊 主办:中冶建筑研究总院有限公司  
建筑科学领域高质量科技期刊分级目录期刊



# 2021.2

51卷 第577期

# Industrial Construction

## 城乡规划和建筑理论

- 1 基于地理信息系统的高密度城市住区天空开阔度研究 金科伟 王 薇  
7 结构成就建筑之美——拱结构在当代公共建筑空间塑造中的运用 刘 伟 刘 明  
12 四川泸州纳溪打古镇乡土碉楼民居研究 姜稀元 和润仙 周 波  
18 受西方文化影响的西安传统建筑文化特征 张钰墨 陈 洋 张 磊, 等

## 工程结构和结构防灾

- 26 高强箍筋约束超高性能混凝土方形短柱轴压承载力计算方法 姚军锁 邓宗才  
32 双向预应力混凝土钢桁架叠合板抗弯性能试验研究与参数分析 刘文政 崔士起  
40 装配式结构新旧混凝土新型接缝力学性能试验 李文韬 贾俊峰 王玉果, 等  
47 大型地上实验水池钢结构方案研究及计算 李竞远 郭彦林  
59 双面连接的Z型全螺栓梁柱连接节点的抗震性能试验研究及有限元分析 张爱林 苏 磊 曹志亮, 等  
66 组装式防屈曲支撑整体稳定性研究 丁玉坤 鲍宗辉 李文文, 等  
71 盲孔法检测钢结构工作应力研究 赵寒川 郑 云  
76 斜交网格钢框架-混凝土核心筒结构施工变形控制数值模拟 陈安英 朱光超 完海鹰, 等  
83 塑性阶段波形钢腹板组合梁体外预应力筋应力增量研究 尹永胜 曹洪亮 高华睿, 等  
90 型钢混凝土梁弯扭性能试验研究 范新宇 邵永健 杭子彦, 等  
98 梁柱截面变化对转换层SRC异型节点抗剪承载力的影响 高志宏  
106 空间曲面钢结构临时支撑提前拆除方案及监测 游 颖 张泽涛 刘学刚, 等  
113 基于价值认知的带隔扇木框架位移角的研究 郭小东 武林超 许清风, 等

## 岩土及地下工程

- 121 非饱和土中单桩的横向瞬态响应研究 刘圆圆 孙箭林  
130 土工格室加筋饱和砂土动力特性试验研究 李小敏  
135 加筋土挡墙筋材铺设参数优化研究 刘 泽 廖 鹏 何 砚, 等  
140 基于高斯过程回归-差异进化法的富水区隧道围岩流固耦合智能反馈分析 吴招锋  
146 基于平行板电容传感器的季节性冻土冰锋面积识别方法 刘添华 王 森 许亚男

## 高性能建筑材料

- 153 氧化石墨烯纳米片层增强水泥基复合材料力学性能研究 王中明 张贺玲  
158 孔隙结构对掺加陶瓷粉混凝土抗冻性的影响 刘紫玫 姚占全 王宗熙, 等  
166 Q345钢管焊接件的高周疲劳性能及多轴疲劳寿命预测 刘 晖 陈世超 周 飘

## 综 述

- 171 装配式混凝土框架结构连接节点抗震性能研究进展 高培楠 邓 扬 李爱群, 等  
186 海水珊瑚骨料混凝土耐久性研究现状 韩宇栋 丁小平 郝挺宇, 等

## 复材结构

- 193 玻璃纤维增强复材条带与钢纤维砂浆加固损伤柱轴心受压试验研究 李 哲 王志立 邢乐阳

## 结构安全性评定及加固

- 199 钢管加固钢筋混凝土短柱的偏压性能试验和计算方法研究 高奔浩 王静峰 沈奇军, 等

## 工程实录

- 206 洞桩法侧向挖掘轻轨车站引起的大跨斜拉桥桩基位移的控制 林 森 薛华俊 张元见

- 1 Research on Sky-View Factor of High-Density Urban Residential Areas Based on GIS JIN Kewei WANG Wei
- 7 The Beauty of Architecture Ascended From Structure: Application of Arch Structure in Space Shaping of Contemporary Public Buildings LIU Wei LIU Ming
- 12 Research on Diaolou Dwellings in Naxidagu Town of Luzhou, Sichuan JIANG Xiyuan HE Runxian ZHOU Bo
- 18 The Cultural Characteristics of Xi'an Traditional Buildings Effected by Western Culture ZHANG Yuzhao CHEN Yang ZHANG Lei, et al
- 26 A Calculation Method of Axial Compressive Bearing Capacity for Short Square Columns of Ultra-High Performance Concrete Confined by High-Strength Stirrups YAO Junsuo DENG Zongcai
- 32 Experimental Study and Parametric Analysis on Flexural Properties of Bilateral Prestressed Composite Concrete Slabs with Steel Trusses LIU Wenzheng CUI Shiqi
- 40 Experimental Research on Mechanical Properties of New and Old Concrete Joints of Prefabricated Structure LI Wentao JIA Junfeng WANG Yuguo, et al
- 47 Study and Calculation of Steel Structure Schemes for a Large Experimental Tank Above Ground LI Jingyuan GUO Yanlin
- 59 Experimental Research and Finite Element Analysis on Sesimic Behaviors of Z-Shaped Beam-to-Column Bolted Joint with Double Connection Plates ZHANG Ailin SU Lei CAO Zhiliang, et al
- 66 Research on Overall Stability of Assembled Buckling-Restrained Braces DING Yukun BAO Zonghui LI Wenwen, et al
- 71 Research on Working Stress of Steel Structures by Hole-Drilling Method ZHAO Hanchuan ZHENG Yun
- 76 Numerical Simulation of Deformation Control for a Hybrid Structure Combined with Diagrid Structure and Concrete Core Tube CHEN Anying ZHU Guangchao WAN Haiying, et al
- 83 External Prestressing Increment of Composite Box Girder with Corrugated Steel Webs at Elastic Stage YIN Yongsheng CAO Hongliang GAO Huarui, et al
- 90 Experiment Study on Flexural and Torsion Properties of Steel Reinforced Concrete Beams FAN Xinyu SHAO Yongjian HANG Ziyang, et al
- 98 Effects of Beam-Column Section Variation on Shear Capacity of SRC Abnormal Joints in Conversion Layer GAO Zhihong
- 106 A Scheme and Engineering Monitoring of Early Dismantling for Temporary Supports of a Spatical Curved Steel Structure YOU Ying ZHANG Zetao LIU Xuegang, et al
- 113 Research on Drift Angles on Wooden Frames with Partition Board Based on Value Recognition GUO Xiaodong WU Linchao XU Qingfeng, et al
- 121 Time Domain Dynamic Analysis of Single Piles Subjected to Impact Loads in Unsaturated Soil LIU Yuanyuan SUN Jianlin
- 130 Test Research on Dynamic Properties of Saturated Sand Reinforced with Geocells LI Xiaomin
- 135 Study on Laying Parameter Optimization of Reinforced Materials in Retaining Walls LIU Ze LIAO Peng HE Fan, et al
- 140 Intelligent Feedback Analysis of Fluid-Solid Coupling on Adjoining Rock of Tunnels in Rich Water Zones Based on the GP-DE Method WU Zhaofeng
- 146 Ice Front Identification of Seasonally Frozen Soils with a Parallel Plate Capacitor LIU Tianhua WANG Miao XU Yanan
- 153 Research on Mechanical Properties of Cement-Based Composites Reinforced with Nano Graphene Oxide WANG Zhongming ZHANG Helin
- 158 Effect of Pore Structure on Frost Resistance of Concrete Mixed with Ceramic Powder LIU Zimei YAO Zhanquan WANG Zongxi, et al
- 166 High-Cycle Fatigue Performances and Multiaxial Fatigue-Life Prediction for Welded Steel Pipes of Q345 LIU Hui CHEN Shichao ZHOU Piao
- 171 Review on Seismic Performance of Connection Joints of Prefabricated Concrete Frame Structures GAO Peinan DENG Yang LI Aiqun, et al
- 186 Current Status of Research on Durability of Seawater-Coral Aggregate Concrete HAN Yudong DING Xiaoping HAO Tingyu, et al
- 193 Experimental Study on Damaged Columns Strengthened with GFRP Strip and Steel Fiber Mortar Under Axial Compression LI Zhe WANG Zhili XING Leyang
- 199 Eccentric Compression Tests and Calculation Methods of RC Stub Columns Strengthened with Steel Tubes GAO Benhao WANG Jingfeng SHEN Qihan, et al
- 206 Deformation Control of Pile Foundations for a Long-Span Cable-Stayed Bridge Under Construction of a Light Rail Station with the Pile-Beam-Arch Method LIN Sen XUE Huajun ZHANG Yuanjian