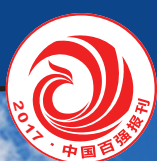
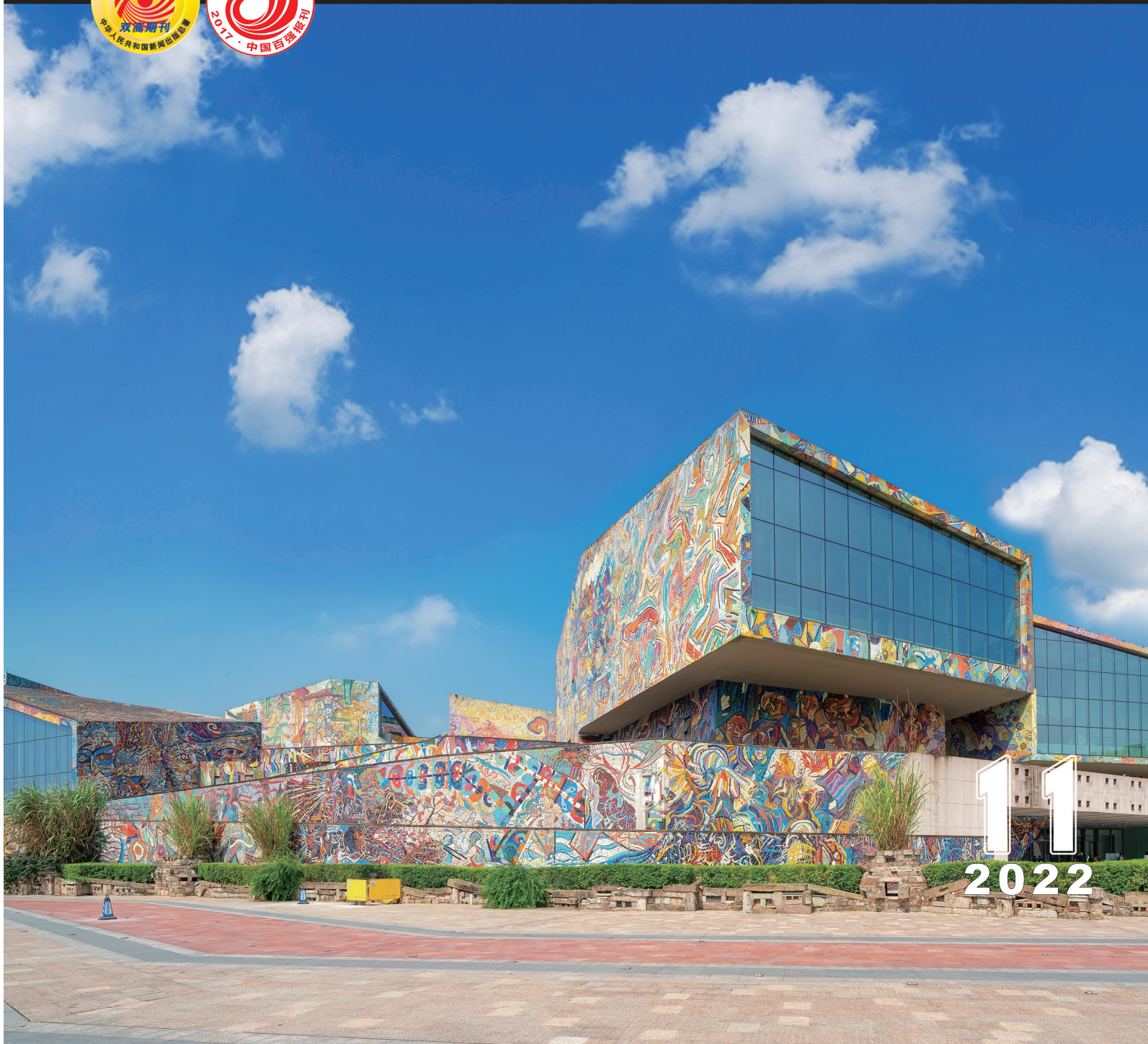


建筑技术



第53卷 第11期 Vol.53 No.11

11
2022

中国出版政府奖提名奖获奖期刊
中国期刊方阵双高期刊
历届国家期刊奖评选获奖期刊
全国百强科技期刊
北方地区十佳期刊
中国科技核心期刊

建筑技术

JIANZHU JISHU

(月刊)

第 53 卷第 11 期(总第 635 期)

2022 年 11 月 15 日出版

(1970 年创刊)

编辑者:《建筑技术》编辑部
总编:张显来

电话:(010)68512449 (010)68511882

<http://www.jzjs.com>

e-mail:jzjs@sina.com

出版者:《建筑技术》杂志社有限责任公司
社址:100055北京市广莲路1号建工大厦A座9层

法律顾问:张国印律师

主管、主办者:北京建工集团有限责任公司

中国标准连续出版物号:ISSN 1000-4726
CN 11-2253/TU

印刷者:北京建筑工业印刷厂

国内发行:中国邮政集团有限公司北京市报刊发行局

订购处:全国各地邮局

《建筑技术》杂志社有限责任公司发行部

邮发代号:2-754 国内定价:10.00元

本社发行部电话:(010)63928687

国外发行:中国国际图书贸易集团有限公司

广告发布登记号:京西工商广登字20170160号

本社广告部电话:(010)63928688

目次

· 装配式结构施工技术 ·

- 小型水工建筑物装配化研究.....袁承斌, 侍忠标, 高睿颖, 顾强 (1440)
- 装配式混凝土剪力墙结构变形缝模板加固技术.....苏建锋, 邢文杰 (1443)
- 钢结构建筑装配式后置组合转接件应用技术研究.....吴富贵, 孙才勇, 刘婧 (1446)
- 群体装配式住宅施工进度管理研究.....苏建锋 (1448)
- 装配式建筑常见施工问题分析与探讨.....张东蛟 (1450)

· 建筑工程设计、施工与研究 ·

- 复杂地下管线环境对深基坑桩锚支护设计及施工的影响分析
.....曾文, 王战广, 王鹏飞, 张新伟, 卢奇 (1454)
- 大型工程设计出图与 BIM 关键技术.....毛宁, 张正 (1457)
- 建筑预留洞口工具式支撑防护架设计及应用
.....刘宾灿, 何永强, 高凤, 冯璐 (1461)
- 湖北某不规则多层建筑结构设计.....梅洁晗 (1464)
- 上海某超限框架结构抗震设计.....刘笑冬 (1467)
- 复杂环境下塔式起重机选型、安装、拆卸及使用管理.....杨磊, 董全忠 (1470)
- 隔震技术在某仿古建筑抗震加固中的应用.....崔少华, 李尚飞, 郝雨杭 (1474)
- 新三管法高压灌浆一咬合桩组合帷幕施工技术.....刘海泉 (1477)
- 激光铅直仪与全站仪天顶法联合测量技术在超高层结构标高竖向传递中的应用
.....熊玉章 (1482)

· 市政工程施工技术 ·

- PP 模块水池安装施工技术
.....刘金山, 李建辉, 马万朋, 韩易桐, 张辉, 魏佳鑫 (1485)
- 大型铁路站房复杂环境下场内施工运输通道组织策划.....苏伍明 (1488)
- TP0 屋面系统在大型主题公园建设中的应用
.....邵玥, 毛向党, 王贺, 王昂昂, 齐军, 周涛 (1491)
- 隧道爆破施工技术的发展研究.....阎凤强 (1494)
- 明挖基坑零距离上跨地铁隧道设计优化及施工技术研究.....吕显福, 毕经东 (1498)
- 西安火车站改扩建站房屋盖大跨焊接球网架施工关键技术.....万涛平, 马洁烽 (1502)
- 某大跨径浅埋隧道中非接触监控量测的应用.....叶真珍, 朱庆锋 (1506)

· 试验研究 ·

- 基于模糊综合评价法与 BIM 技术的评标方法研究.....柳锋, 马利东, 杜萌洲 (1509)
- 建筑空间结构通用模型试验平台
.....秦杰, 张发强, 柳锋, 刘枫, 张强 (1513)

小直径灌浆薄壁钢管短柱轴压承载力试验研究·····	曹春晖, 周广强, 张鑫 (1517)
严寒地区建筑形态调控下建筑能耗与舒适度影响因素研究·····	贺龙, 吕保 (1520)
多孔介质热、空气、湿非稳态耦合传递改进模型及其验证·····	魏家帅, 于水 (1524)
基于相似度的砌体结构建筑群安全评估方法研究·····	袁辉, 焦柯 (1528)
建筑外遮阳构件综合性能评价方法研究 ·····	周雨榭, 周欣, 江玥, 安晶晶, 燕达, 石邢 (1532)
宽幅空心板桥梁承载力分析及抗剪加固技术·····	路佳阔 (1536)
考虑空间效应作用下基坑围护结构变形数值计算研究·····	赵兴涛 (1540)
自行式大悬臂盖梁预应力张拉吊篮数值模拟及 SWOT 分析 ·····	张天宝, 刘强 (1544)
基于区块链的工程项目超预算成本管控方法研究·····	江怀瑞 (1547)
逆拆除中竖向位移不同步对框架柱底内力影响 ·····	马宏睿, 王鹄, 时继瑞, 储德文 (1551)

· 施工技术 ·

三角组合型钢悬挑脚手架施工技术·····	季超, 王长明, 刘鑫宇 (1555)
跨既有大跨度台车吊装施工技术·····	罗力军 (1558)
土压平衡盾构下穿人防工程施工控制技术·····	张明伟 (1561)

· 智能建造技术研讨 ·

数字化驱动智能建造·····	张建平, 林佳瑞, 胡振中, 王珩玮 (1566)
基于点云数据的地铁隧道限界智能检测 ·····	杨敏, 燕樟林, 高利业, 吴勇, 鲍艳, 吴旭 (1571)
核电工程受限空间作业安全监控系统设计与应用 ·····	张刚刚, 杨玥, 孙美娟, 胡睿博, 陈珂 (1576)
面向智能建造技术的专业人才培养探索·····	廖维张, 侯敬峰, 李天华 (1580)

· 科技赋能· 绿色人居 ·

从艺术到建造, 从建造到艺术——一种新型建筑学反思 ·····	张宏 (1586)
用建筑信息技术助力城乡建设高质量发展·····	张弘 (1588)
低碳时代的建筑节能新材料·····	汪远昊 (1590)
既有老旧住宅改造中的建筑技术·····	朱宁 (1593)
“双碳”目标背景下的城市热舒适评价模型及热环境预测方法构建·····	何玥儿 (1596)
新时代挑战下的建筑设计院绩效管理数字化研究·····	李成磊 (1599)

封面: 四川美术学院罗中立艺术馆



2022 年第 11 期



欢迎关注建筑技术杂志社官方微信,
定期推送丰富业内资讯, 关注有惊喜!

下期要目预告

大跨空间弦支轮辐式桁架结构旋转
累积滑移施工技术与分析
大跨度弦支混凝土梁施工过程监测
与分析
大跨度封闭料场空间结构带 Y 形中
柱滑移施工技术
新型单层空间大跨度不规则曲面钢
网格结构施工关键技术
室内超高狭小空间悬挂结构手拉葫
芦跨层提升技术
浅析再生混凝土于基础等非承重部
位再利用
聚苯颗粒水泥夹芯复合隔墙现浇施
工技术

ARCHITECTURE TECHNOLOGY

(Monthly, Started in 1970)

Vol.53 No.11

November 15, 2022

Edited by
Architecture Technology Editorial Department
Published by
Publishing House of Architecture Technology Journal
Address:
9th Floor, No.1 Guanglian Road, Xicheng District,
Beijing, China, 100055
Tel: (8610) 68512449 63928687 63928688
Fax: (8610) 63928689
<http://www.jzjs.com> e-mail: jzjs@sina.com
Overseas Distributed by
China International Book Trading Corporation
(P. O. Box 399, Beijing, PRC)

CONTENTS

·Assembly structure construction technology·

- Research on small assembly hydraulic structure
..... *YUAN Cheng-bin, SHI Zhong-biao, GAO Rui-ying, et al.*(1440)
- Reinforcement technology for deformation joints formwork in prefabricated concreted shear wall
structures *SU Jian-feng, XING Wen-jie*(1443)
- Technical research on the application of prefabricated rear composite adapter in steel building
..... *WU Fu-gui, SUN Cai-yong, LIU Jing*(1446)
- Research on construction progress management of group prefabricated houses
..... *SU Jian-feng*(1448)
- Analysis and research of common construction problems of prefabricated buildings
..... *ZHANG Dong-jiao*(1450)

·Building Engineering Design, Construction and Research·

- Analysis for the impact of complex underground pipeline environment on the design and
construction of pile-anchor support in deep foundation pit
..... *ZENG Wen, WANG Zhan-guang, WANG Peng-fei, et al.*(1454)
- BIM key technology and drawing design for large-scale engineering
..... *MAO Ning, ZHANG Zheng*(1457)
- Design and application of implementary support and protection frame at building reserved
opening *LIU Bin-can, HE Yong-qiang, GAO Feng, et al.*(1461)
- Structural Design of an Irregular Multistoried Building in Hubei Province *MEI Jie-han*(1464)
- Seismic design of a ultra-limit frame structure in Shanghai *LIU Xiao-dong*(1467)
- Selection, installation, disassembly and use management of tower crane in complex environment
..... *YANG Lei, DONG Quan-zhong*(1470)
- Application of seismic isolation technique in seismic reinforcement of archaize building
..... *CUI Shao-hua, LI Shang-fei, HAO Yu-hang*(1474)
- Construction technology for composite waterproof curtain of high-pressure grouting - occlusal pile
with the new three-pipe method *LIU Hai-quan*(1477)
- Application of combined measurement technology for laser plummet apparatus and electronic
total station zenith ranging method in vertical transfer of super high-rise structure elevation
..... *XIONG Yu-zhang*(1482)

·Municipal Engineering Construction Technology·

- Construction technology of PP module installation in water pool
..... *LIU Jin-shan, LI Jian-hui, MA Wan-peng, et al.*(1485)
- Interior construction transportation passage organization and planning under complex conditions
of large railway station building *SU Wu-ming*(1488)
- Application of TPO roofing system in the construction of large theme park
..... *SHAO Yue, MAO Xiang-dang, WANG He, et al.*(1491)
- Research on the development of tunnel blasting construction technology *YAN Feng-qiang*(1494)
- Research on design optimization and construction technology of open-cut foundation pit upper-
spanning subway tunnel at zero distance *LYU Xian-fu, BI Jing-dong*(1498)
- Key Construction Technology for Large-span Welded Ball Grids in the Roof of the Renovation
and Extension Project in Xi'an Railway Station *WAN Tao-ping, Ma Jie-feng*(1502)
- Application of non-contact monitoring measurement in a long-span shallow buried
tunnel *YE Zhen-zhen, ZHU Qing-feng*(1506)

·Experimental Study·

- Research on bid evaluation method based on fuzzy comprehensive evaluation method and BIM
technology *LIU Feng, MA Li-dong, DU Meng-zhou*(1509)

Test platform for general models of building spatial structure	.....	<i>QIN Jie, ZHANG Fa-qiang, LIU feng, et al.</i> (1513)
Research and test on axial pressure bearing capacity of short filling steel pipe column with small diameter and thin wall	.....	<i>CAO Chun-hui, ZHOU Guang-qiang, ZHANG Xin</i> (1517)
Research on factors influencing building energy consumption and comfortability under building shape control in severe cold region	.....	<i>HE Long, LYU Bao</i> (1520)
Modified model and verification of unstable coupling transmission of heat, air and moisture in porous media	.....	<i>WEI Jia-shuai, YU Shui</i> (1524)
Research on similarity-based safety assessment method of masonry structure building cluster	.....	<i>YUAN Hui, JIAO Ke</i> (1528)
Research on general performance assessment of building external shading component	.....	<i>ZHOU Yu-xie, ZHOU Xin, JIANG Yue, et al.</i> (1532)
Bearing capacity analysis and anti-shear reinforcement technique of wide hollow slab bridge	.....	<i>LU Jia-kuo</i> (1536)
Research on numerical calculation of deformation of foundation pit enclosure structure with consideration of space effect	.....	<i>ZHAO Xing-tao</i> (1540)
Numerical simulation and swot analysis of prestressing tensile lifting cage for travelling large cantilever capping beam	.....	<i>ZHANG Tian-bao, LIU Qiang</i> (1544)
Research on the control method for over-budget cost of engineering projects based on blockchain	.....	<i>JIANG Huai-rui</i> (1547)
Influence of unsynchronized vertical displacement on the internal force of the frame column bottom in reverse demolition	.....	<i>MA Hong-rui, WANG Kun, SHI Ji-rui, et al.</i> (1551)

·Construction Technology·

Research on the construction technology of triangular integrated steel cantilever scaffolding	.....	<i>JI Chao, WANG Chang-ming, LIU Xin-yu</i> (1555)
Hoisting technology for large span gantry crane spanning existing railway	.....	<i>LUO Li-jun</i> (1558)
Construction control technology of earth pressure balance shield tunnelling civil air defense engineering	.....	<i>ZHANG Ming-wei</i> (1561)

· Research on Construction Technology of Intelligent Construction Engineering

Intelligent construction driven by digitalization	.....	<i>ZHANG Jian-ping, LIN Jia-rui, HU Zhen-zhong, et al.</i> (1566)
Intelligent detection of subway tunnel gauge based on point cloud data	.....	<i>YANG Min, YAN Zhang-lin, GAO Li-ye, et al.</i> (1571)
Design and application of security monitoring system for confined space operation of nuclear power engineering	.....	<i>ZHANG Gang-gang, YANG Yue, SUN Mei-juan, et al.</i> (1576)
Training of intelligent construction professionals	.....	<i>LIAO Wei-Zhang, HOU Jing-Feng, LI Tian-hua</i> (1580)

·Technology Enables · Green Living ·

From construction to art, a reflection on the next generation architecture	.....	<i>ZHANG Hong</i> (1586)
Using building information technology to help high-quality development of urban and rural construction	.....	<i>ZHANG Hong</i> (1588)
New energy-saving materials for buildings in the low-carbon era	.....	<i>WANG Yuan-hao</i> (1590)
Construction technology in renovation of old residential buildings	.....	<i>ZHU Ning</i> (1593)
Construction of urban thermal comfort evaluation model and thermal environment prediction method under the background of "Double-carbon" target	.....	<i>HE Yue-er</i> (1596)
Research on the Management of Architectural design institutes under the challenges of the new era	.....	<i>LI Cheng-lei</i> (1599)

欢迎订购2021年 合订本

读者您好，本刊2021年合订本已发行，欢迎来电咨询订阅。

除北京报刊发行局外，我社未委托其他单位负责发行工作，请读者务必直接向我社发行部或北京报刊发行局订阅。

Key Topics in Next Issue

Key techniques for wind-resistance test of metal roofing system
Concrete quality detection algorithm based on deep learning
Massive concrete construction technique of raft foundation
Some thoughts on green development and intelligent construction
From project information management to digital built Britain
Research on low shrinkage radiation protection heavy concrete
Construction technique of super-long barite concrete ratchet wall