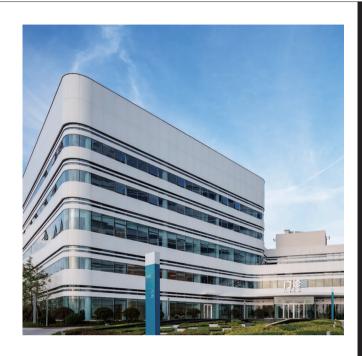


# 工程建设与设计



 $\mathsf{C} \qquad \mathsf{O} \qquad \mathsf{N} \qquad \mathsf{T} \qquad \mathsf{E} \qquad \mathsf{N} \qquad \mathsf{T} \qquad \mathsf{S}$ 



## 建筑与结构设计

- 01 乡村振兴战略环境下乡村民宿建筑设计探讨 (郑锐填)
- 04 建筑住宅小区地下车库顶板优化设计研究 (部海洋,高东亮,李海雷)

## 公用工程设计

- 07 城镇排水系统预诊断技术及在六安市某区域的应用 研究(王礼兵)
- 11 工业厂房给排水与消防设施设计要点研究(李书恒,邓景顺,寇安)
- 14 "化整为零"——水冷式直膨系统在深圳地铁的应用(黄国良)
- 17 多联机空调系统的设计(何兴)
- 20 固定流场下非均匀室内空气温度分布规律的研究 (彭军)
- 23 电力配电线路故障原因分析及处理(冉川)
- 26 高层建筑燃气供应设计中的问题及控制对策研究 (龙森)
- 29 探讨建筑给排水设计节能减排策略(张睿智)

### 市政・交通・水利工程设计

- 32 青海海东地区高速公路改扩建工程施工期安全保畅 分流研究(陆雨函,王振,王志华,李文虎)
- 35 既有预应力混凝土空心板梁抗弯承载能力试验研究 (游勇利,范小军,谈勇,郭景昆,曹琪,杨超)
- 38 既有桥嵌入式轨道系统优化设计(祝朋玮)

#### 2022 / 11 下 / 目次

- 41 机械式立体钢结构公交车库总体建设方案分析 (苏相岗,胡帅,陈振林,赖世民,苟立平)
- 44 复杂地层盾构穿越大规模铁路车辆段方案研究 (娄小骏)
- 47 市政桥梁雨水排水系统设计研究 (唐乐东,植凯欣)
- 50 城市道路照明设计浅析(李娇)
- 53 轨道交通地铁车站换乘方式设计研究——以白泥坑 站为例(陈炳强)
- 56 多雨区城市道路超高缓和段排水关键技术措施 (宁山超,刘建国)
- 60 生态护岸在山洪沟防洪治理工程中的运用分析 (赵玉秀)
- 63 波形钢腹板PC组合结构在桥梁中的应用研究 (项伟康)
- 66 环保理念在高等级道路路线设计中的要点分析 (张建华)
- 69 大厚度水泥稳定碎石基层在高速公路路面工程中的 运用分析(陈勇)

## 工业工程设计

- 72 GE9F燃气轮机主要控制系统及IGV系统分析 (宋党科)
- 75 大型LNG储罐罐壁隔热层保冷性能及其优化对策探 究(李广财)

## 智能与信息化

- 78 全自动运行线路车地无线通信系统技术研究——以 轨道交通工程为例(邓怀安)
- 81 大型工业厂房工程建设中BIM技术的应用 (寇安,李书恒,孔令熙)
- 84 智能控制系统在园林景观照明工程中的应用 (房晓峰)
- 87 基于陀螺仪的定向钻工程测量技术分析(王斌)
- 90 地铁风水电安装碰撞检测中BIM技术的应用研究 (姚磊)
- 93 基于BIM技术的绿色建筑装饰设计评价研究 (吴美净)
- 96 基于测绘工程测量中无人机遥感技术运用(欧阳凯)
- 99 BIM技术在高层建筑防火监督中的应用研究 (王国祥)

# 工程施工技术

102 沿海地区不均匀地质下抗拔预应力高强混凝土管桩 的设计与施工(汤亮,李聪聪,郭淯晟,唐明成, 杨高勇,王仕名)

2022/11/23 10:42:15

- 106 高层建筑施工爬架平面布置方案设计探究 (谢璐,彭凯,王强强)
- 109 承插型盘扣式钢管支架在超高模板支撑中的应用研究(李叔贵, 兰夏, 张晁, 张超)
- 112 导流施工技术在水利工程施工中的运用要点分析 (贾绪锦)
- 115 巨厚流塑状淤泥质地层区间隧道深基坑开挖对周边 环境的影响分析(王彦虎)
- 118 公共建筑集中供冷外管网施工技术 (黄志云,乔申,闫风,胡其正)
- 121 地铁工程项目中的盾构法施工工艺(任光跃)
- 124 光伏支架安装施工技术在农业光伏电站项目中的应 用(周成贤)
- 127 大跨度窄箱式钢混组合梁施工技术(邓小峰)
- 130 综合超前地质预报技术在大磅山隧道中的应用 (孟庆锋)
- 133 地铁车站明挖基坑施工技术研究 (刘小琦,张宇明)
- 136 铁路路基长螺旋钻机施工CFG桩质量控制策略 (邹青)
- 139 超高层住宅铝模体系施工质量控制对策分析 (许浩,孟珊,汪斌,邓敦文)
- 142 横琴口岸莲花大桥桥墩及承台加固维护技术 (魏小强,邬东方,陈之,黄龙灿,刘怡)
- 147 探讨房屋建筑工程发生渗漏的原因及防治 (尤晓甜)
- 150 钢结构工业厂房施工技术及质量控制要点探析 (孔令熙,李书恒,寇安)
- 153 水泥深层搅拌桩(湿法)室内试验研究(李凤云)
- 156 乳化沥青厂拌冷再生技术在旧路改建项目中的应用研究(牟翰)
- 159 岩溶强发育地区的质子医院"零沉降"桩基施工技术(徐金鑫,程锦涛,郑松,赵博,雷坚,郭善滨)
- 162 质子医院防辐射超大尺寸钢板墙施工技术(王俊彦,程锦涛,蔡佳兵,杨国勇,郑松,赵博)
- 165 临地铁车站的高架桥梁桩基施工时序研究 (聂雄,刘博)
- 168 鲤鱼洲泵站清水混凝土大体积温控技术(黄青云)
- 171 质子医院防辐射超大尺寸混凝土施工技术 (陈仕华,程锦涛,郑松,赵博,雷坚,郭善滨)
- 174 非开挖顶管施工技术在市政排水工程中的应用 (蔡振飞)
- 177 预制装配式隔音墙系统施工技术(蔡尹似)
- 180 复杂地层特大断面车站拱盖法施工监测数据分析与 应用(杨秀才)

183 不规则立面建筑型钢悬挑脚手架施工技术研究 (程学明,罗国岭,孙佳)

186 高层框剪结构土建施工中的免抹灰施工技术应用分析(倪瑾瑾,李大贵,万福源,刘曦,羊焕群)

2022 / 11 下 / 目次

- 189 建筑工程框架剪力墙结构主体工程施工技术研究 (高宝柱,陈哲凡,张洋)
- 192 建筑工程施工技术及其现场施工管理措施研究 (马玉英,关学林)
- 195 装配式建筑施工技术难点及应对措施研究(杨博)
- 198 钢带增强聚乙烯波纹管在市政排水管道中的应用 (王清平)
- 201 既有混凝土建筑与新建钢结构建筑连接设计建议 (吴灏斌,孟珊,张楠祥,梁硕,马宇希)
- 204 房屋建筑装配式混凝土结构建造技术的应用研究 (陈景辉,胡键威)
- 207 高层建筑中悬挑式脚手架施工与安全技术分析 (饶方明,吴志刚)
- 211 绿色建筑材料在建筑工程施工中的运用分析 (司洋,王非)
- 214 混凝土浇筑施工技术在中高层建筑工程中的运用研究(赵占飞,张勇周)
- 217 新时期工民建施工技术及管理措施研究(余志能)
- 220 附着式升降脚手架在复杂形状建筑物施工中的应用研究(裴弼刚,徐宏宇)

#### 工程项目管理

- 223 基于EPC模式的装配式建筑的质量控制方法 (王立欢,李全忠)
- 226 钢结构建筑火灾调查研究(宋刚)
- 229 城市更新政策研究(杨发兵,周明,沈瑞)
- 232 探究市政工程招标过程的常见弊端及其原因 (岳丹)
- 235 高校实验室常见火灾类型及消防措施分析(黄克)
- 238 高层建筑消防安全突出问题及对策建议探析 (曹琪)
- 241 建筑业节能减碳对策研究(刘琛,田得有)
- 244 水利水电工程监理质量控制的工作要点分析 (贾玉)
- 247 中小型水利水电工程设计中常见问题及对策研究 (张代凤,罗超)
- 250 浅析双碳目标下减碳固碳建筑材料展望 (刘志中,王平)
- 253 建筑工程造价控制措施研究 (陈充,张奇,张续骅)
- 256 公路工程投资控制研究(王建)

2022/11/23 10:42:15

#### **Architectural and Structural Design**

- 01 Discussion on Architectural Design of Rural Homestay Under the Strategic Environment of Rural Revitalization(ZHENG Rui-tian)
- 04 Study on Roof Optimization Design of Underground Garage in Residential Quarter(BU Hai-yang, GAO Dong-liang, LI Hai-lei)

#### **Public Utilities Design**

- 07 Pre-Diagnosis Technology of Urban Drainage System and Its Application in a Certain Area of Lu'an City(WANG Li-bing)
- 11 Research on Design Key Points of Water Supply and Drainage and Fire Protection Facilities in Industrial Plant(LI Shu-heng, DENG Jingshun, KOU An)
- 14 "Divide Whole into Parts"——Application of Water-Cooled Direct Expansion System in Shenzhen Metro(HUANG Guo-liang)
- 17 Design of Multi-Split Air-Conditioning System(HE Xing)
- 20 Study on Temperature Distribution Characteristics of Steady Flow Field in Non-Uniform Indoor Air Environment(PENG Jun)
- 23 Cause Analysis and Treatment of Faults of Power Distribution Line(RAN Chuan)
- 26 Study on Problems and Control Countermeasures in Gas Supply Design of High-Rise Buildings(LONG Sen)
- 29 Discussion on Energy Conservation and Emission Reduction Strategy of Building Water Supply and Drainage Design(ZHANG Rui-zhi)

#### Municipal·Traffic·Water Resources Engineering Design

- 32 Study on Safety and Unobstructed Diversion Method During Construction of Expressway Reconstruction and Expansion Project in Haidong Area, Qinghai Province(LU Yu-han, WANG Zhen, WANG Zhi-hua. LI Wen-hu)
- 35 Experimental Study on Flexural Bearing Capacity of Existing Prestressed Concrete Hollow Beam(YOU Yong-li, FAN Xiao-jun, TAN Yong, GUO Jing-kun, CAO Qi, YANG Chao)
- 38 Optimal Design of Embedded Track System of Existing Bridge(ZHU Peng-wei)
- 41 Analysis on the Overall Construction Scheme of Bus Garage with Mechanical Three-Dimensional Steel Structure(SU Xiang-gang, HU Shuai, CHEN Zhen-lin, LAI Shi-min, GOU Li-ping)
- **44** Study on Shield Tunneling Through Large-Scale Railway Depot in Complex Stratum(LOU Xiao-jun)
- **47** Design and Study of Rainwater Drainage System of Municipal Bridge(TANG Le-dong, ZHI Kai-xin)
- 50 Brief Analysis of Urban Road Lighting Design(LI Jiao)
- 53 Research on Transfer Mode Design of Rail Transit Metro Station—Taking Bainikeng Station as an Example (CHEN Bing-qiang)
- 56 Key Technical Measures for Drainage at Super-Elevation Sections of Urban Roads in Rainy Areas(NING Shan-chao, LIU Jian-guo)
- **60** Analysis on the Application of Ecological Bank Protection in Flood Control Project of Mountain Torrent Ditch(ZHAO Yu-xiu)
- 63 Research on the Application of PC Composite Structure with Corrugated Web in Bridges(XIANG Wei-kang)
- **66** Analysis of Key Points of Environmental Protection Concept in the Route Design of High-Grade Road(ZHANG Jian-hua)
- 69 Application Analysis of Thick Cement Stabilized Crushed Stone Base in Expressway Pavement Engineering(CHEN Yong)

# 2022 / 11B / CONTENTS

#### **Industrial Engineering Design**

- **72** Analysis of the Main Control System and IGV System of GE9F Gas Turbine(SONG Dang-ke)
- 75 Study on the Cold Insulation Performance of the Insulation Layer on the Wall of Large LNG Storage Tank and Its Optimization Countermeasures(LI Guang-cai)

#### Int Elligentialize and Informatization

- 78 Research on Vehicle-Ground Wireless Communication System Technology of Fully Automatic Running Line—Taking Rail Transit Engineering as an Example(DENG Huai-an)
- **81** Application of BIM Technology in Engineering Construction of Large Industrial Plant(KOU An, LI Shu-heng, KONG Ling-xi)
- 84 Application of Intelligent Control System in Landscape Lighting Project(FANG Xiao-feng)
- 87 Analysis of Directional Drilling Engineering Survey Technology Based on Gyroscope(WANG Bin)
- 90 Research on the Application of BIM Technology in Collision Detection of Subway Ventilation, Water and Electricity System Installation(YAO Lei)
- **93** Research on Evaluation of Green Building Decoration Design Based on BIM Technology(WU Mei-jing)
- **96** Application of Unmanned Aerial Vehicle Remote Sensing in Surveying and Mapping Engineering(OUYANG Kai)
- **99** Research on the Application of BIM Technology in Fire Prevention Supervision of High-Rise Buildings(WANG Guo-xiang)

#### **Construction Technology**

- 102 Design and Construction of Uplift Prestressed High-Strength Concrete Pipe Pile Under Uneven Geological Conditions in Coastal Areas(TANG Liang, LI Cong-cong, GUO Yu-sheng, TANG Mingcheng, YANG Gao-yong, WANG Shi-ming)
- **106** Study on Layout Design Scheme of Climbing Frame for High-Rise Building Construction(XIE Lu, PENG Kai, WANG Qiang-qiang)
- 109 Research on the Application of Socket-Type Buckle-Type Steel Pipe Support in Super-High Formwork Support(LI Shu-gui, LAN Xia, ZHANG Chao, ZHANG Chao)
- 112 Analysis on Application Points of Diversion Construction Technology in Hydraulic Engineering Construction(JIA Xu-jin)
- 115 Analysis of the Influence of Excavation on the Surrounding
  Environment of Tunnel Deep Foundation Pit in the Section of Huge
  Thick Fluid Plastic Silt Layer(WANG Yan-hu)
- 118 Construction Technology of External Pipe Network for Centralized Cooling in Public Buildings(HUANG Zhi-yun, QIAO Shen, YAN Feng, HU Qi-zheng)
- 121 Shield Construction Technology in Subway Project(REN Guang-yue)
- 124 Application of Photovoltaic Bracket Installation and Construction Technology in Agricultural Photovoltaic Power Station Project(ZHOU Cheng-xian)
- **127** Construction Technology of Large-Span Narrow Box Steel-Concrete Composite Beam(DENG Xiao-feng)
- **130** Application of Comprehensive Advanced Geological Prediction Technology in Dabangshan Tunnel (MENG Qing-feng)
- **133** Research on Construction Technology of Open Excavation Foundation Pit of Subway Station(LIU Xiao-qi, ZHANG Yu-ming)

2022/11工程-下-版权页,indd 5

- 136 Quality Control Strategy for CFG Pile in Railway Subgrade Construction by Long Auger Drill(ZOU Qing)
- 139 Analysis of Construction Quality Control Countermeasures of Aluminum Mold System for Super High-Rise Residential Buildings(XU Hao, MENG Shan, WANG Bin, DENG Dun-wen)
- 142 Reinforcement and Maintenance Technology of Bridge Pier and Cap of Lianhua Bridge at Hengqin Port(WEI Xiao-qiang, WU Dong-fang, CHEN Zhi, HUANG Long-can, LIU Yi)
- **147** Discussion on the Causes and Prevention of Leakage in Housing Construction Projects(YOU Xiao-tian)
- 150 Analysis on Construction Technology and Quality Control Points of Steel Structure Industrial Plant(KONG Ling-xi, LI Shu-heng, KOU An)
- **153** Study on Laboratory Test of Deep Mixing Cement Pile (Wet Method) (LI Feng-yun)
- **156** Research on the Application of Cold Recycling Technology of Emulsified Asphalt Plant in Old Pavement Reconstruction Project(MU Han)
- 159 Construction Technology of "Zero Settlement" Pile Foundation in Proton Hospital in Areas with Strong Karst Cave Development(XU Jin-xin, CHENG Jin-tao, ZHENG Song, ZHAO Bo, LEI Jian, GUO Shan-bin)
- 162 Construction Technology of Anti-Radiation Super-Large Steel Plate Wall of Proton Hospital(WANG Jun-yan, CHENG Jin-tao, CAI Jiabing, YANG Guo-yong, ZHENG Song, ZHAO Bo)
- 165 Study on Construction Sequence of Viaduct Pile Foundation Near Metro Station(NIE Xiong, LIU Bo)
- **168** Large Volume Temperature Control Technology of Fair-Faced Concrete in Liyuzhou Pumping tation(HUANG Qing-yun)
- 171 Construction Technology of Anti-Radiation Oversized Concrete in Proton Hospital(CHEN Shi-hua, CHENG Jin-tao, ZHENG Song, ZHAO Bo, LEI Jian, GUO Shan-bin)
- **174** Application of Trenchless Pipe Jacking Technology in Municipal Drainage Engineering(CAI Zhen-fei)
- 177 Construction Technology of Prefabricated Sound Insulation Wall System(CAI Yin-si)
- 180 Monitoring Data Analysis and Application of Arch Cover Method in Construction of Station with Large Section in Complex Strata(YANG Xiu-cai)
- 183 Study on Construction Technology of Profile Steel Cantilever Scaffold in Irregular Facade Building(CHENG Xue-ming, LUO Guoling, SUN Jia)
- 186 Application Analysis of Plastering-Free Construction Technology in Civil Construction of High-Rise Frame Shear Wall Structure(NI Jinjin, LI Da-gui, WAN Fu-yuan, LIU Xi, YANG Huan-qun)
- **189** Research on Construction Technology of Main Works of Frame Shear Wall Structure in Building Engineering(GAO Bao-zhu, CHEN Zhe-fan, ZHANG Yang)
- 192 Research on Construction Technology and on-Site Construction Management Measures of Construction Engineering(MA Yu-ying, GUAN Xue-lin)
- **195** Study on Technical Difficulties and Countermeasures of Prefabricated Building Construction(YANG Bo)
- **198** Application of Steel Belt Reinforced Polyethylene Bellows in Municipal Drainage Pipe(WANG Qing-ping)

2022 / 11B / CONTENTS

- 201 Suggestions on Connection Design Between Existing Concrete Buildings and New Steel Structure Buildings(WU Hao-bin, MENG Shan, ZHANG Nan-xiang, LIANG Shuo, MA Yu-xi)
- 204 Research on the Application of Construction Technology of Prefabricated Concrete Structure Building(CHEN Jing-hui, HU Jianwei)
- 207 Construction and Safety Technology Analysis of Cantilever Scaffold in High-Rise Buildings(RAO Fang-ming, WU Zhi-gang)
- 211 Application Analysis of Green Building Materials in the Construction of Building Engineering(SI Yang, WANG Fei)
- 214 Research on the Application of Concrete Casting Construction
  Technology in Middle and High-Rise Building Engineering(ZHAO
  Zhan-fei, ZHANG Yong-zhou)
- 217 Research on the Construction Technology and Management Measures of Industrial and Civil Engineering Construction in the New Period(YU Zhi-neng)
- 220 Research on the Application of Attached Lifting Scaffold in the Construction of Complex Shape Buildings(PEI Bi-gang, XU Hong-yu)

#### **Project Management**

- 223 Quality Control Method of Prefabricated Building Based on EPC Mode(WANG Li-huan, LI Quan-zhong)
- 226 Research on Fire Investigation of Steel Structure(SONG Gang)
- 229 Research on Urban Renewal Policy (YANG Fa-bing, ZHOU Ming, SHEN Rui)
- 232 Exploration on the Common Disadvantages and Causes of the Bidding Process of Municipal Engineering(YUE Dan)
- 235 Analysis of Common Types of Fires and Fire-Fighting Measures in University Laboratories(HUANG Ke)
- 238 Analysis on the Outstanding Problems and Countermeasures of Fire Safety in High-Rise Buildings(CAO Qi)
- **241** Research on Energy Conservation and Carbon Reduction
  Countermeasures of Construction Industry(LIU Chen, TIAN De-you)
- 244 Analysis on Key Points of Quality Control of Water Conservancy and Hydropower Project Supervision(JIA Yu)
- 247 Study on Common Problems and Countermeasures in the Design of Small and Medium-Sized Water Conservancy and Hydropower Projects(ZHANG Dai-feng, LUO Chao)
- **250** Analysis on the Prospect of Carbon Reduction and Carbon Fixation of Building Materials Under the Dual Carbon Target(LIU Zhi-zhong, WANG Ping)
- 253 Research on Cost Control Measures of Construction Project(CHEN Chong, ZHANG Qi, ZHANG Xu-hua)
- 256 Research on Investment Control of Highway Engineering(WANG Jian)

2022/11工程-下-版权页.indd 6 2022/11/23 10:42:15