



工程设计与设计

国家机械工业局工程建设中心 中国机械工业勘察设计协会 中国中元国际工程有限公司 CN 11-3914/TU 2022 年第03月上 总第475期



QK2218409



中国石油大学(华东)图书馆(二期)
北京市建筑设计研究院有限公司

ISSN 1007-9467



9 771007 946226

动态资讯

- 01 “两部门办公厅印发通知明确，到2025年全国城市公共供水管网漏损率力争控制在9%以内”等信息6则

建筑与结构设计

- 03 预应力混凝土宽箱梁建模计算与对比分析（王煜）
07 厂房内部存在挡土墙时两种结构方案的比较（赵明，黄秀亮，林家民）
10 某室内滑雪馆斜柱结构分析与设计（徐晟翔）
14 转型升级背景下科技产业园规划设计——以合肥经开区智能科技园为例（胡小勃）
18 “菏泽之魂，城市之光”——山东菏泽民间艺术园景观设计探究（闫玉洁）
21 乡村振兴背景下的村庄规划策略研究——以北京市大兴区礼贤镇大辛庄5村为例（杨琳琳）
25 太阳能光伏建筑一体化中光伏幕墙的设计要点分析（姜文化）
28 基于文化肌理重塑的乡村特色空间设计研究——以山东省海阳市后山中涧村为例（闵无非，杨妮，姜立婷）
31 从“持续”看老城区“体素”的更新改造——以白塔寺再生计划为例（陈炜东）
34 希尔顿逸林酒店优化设计研究（陈扬）

基础工程设计

- 37 新形势下工民建项目岩土工程勘察工作分析（王飞）

- 40 某管廊工程基坑支护优化设计（崔帅）

公用工程设计

- 44 地下空间冷源在电梯机房新型节能系统的应用（冀翠莲，刘晓鹏，甘信广，孙亚林，任传磊）
47 风电场集电线路杆塔倒塌原因及对策探讨（邵明德）
50 高速铁路牵引供电接触网雷电防护策略分析（徐平，邓梦）
53 通风与空调系统消声减振技术措施（王秋江）
56 综合管廊内天然气管道工艺设计要点分析（李哲）

市政·交通·水利工程设计

- 60 BIM技术在市政工程中的应用研究综述（马文琪，赵杰，马汝杰）
64 城市道路平面交叉口设计探讨（卢建）
67 道路沉降段路基路面设计要点分析（熊先达）
70 桥梁抗震与抗风设计理念及设计方法研究（周建波）
73 公路桥梁施工项目管理特征及方法研讨（褚铁成）
76 排水沥青路面高黏改性剂的研究及应用分析（李佳庆）
79 景观大桥亮化设计要点概述（孙展，董建明）
82 正交异性钢桥面板制造技术研究（庄庆庆，马静肖）
85 水利工程中河道堤岸防护工程施工技术分析（张平，戴成根，王正）
88 公园城市背景下工业园区道路景观设计初探（何梅珺）
91 城市道路分类体系更新探索——以无锡市滨湖区实践为例（承诞绚，郭芸，程灿）
94 海绵城市建设与市政给排水策略分析（薛竣）
97 多路交叉的凤凰山枢纽互通式立交方案选型设计（周春东）
101 某市政道路排水箱涵雨、污分流改造的思考与设计（金锶，刘聪，刘孝坤，王小林）

智能与信息化

- 105 基于BIM技术的空间双曲面赛道毫米级精度控制方法研究(彭辉, 刘莎莎)
- 108 RGV轨道穿梭车在船厂无人化钢板库区中的应用(韩荃, 秦忠文, 赵健, 徐志升, 张凡)
- 111 测绘新技术在测绘工程测量中的运用探析(王俊)
- 114 “新基建”及智慧建造背景下工程施工技术理论应用与发展——基于复杂钢结构工程施工(魏鑫, 欧德欣, 包尊杰)
- 117 “BIM+三维激光扫描”技术在山区高速公路项目施工中的应用探究(郭灯, 施正宝, 陈保祥, 薛杰, 胡稳根)

工程施工技术

- 120 滑模技术在水利水电工程施工中的应用(杨立兵)
- 123 公路桥梁施工中预应力技术的应用探究(徐福杰)
- 126 600 MPa高强钢筋的工程应用探析(林家民, 袁丹, 纪纪念, 刘天同, 王锐)
- 129 一种三格矩形沉井在综合管廊顶管井中的应用(刘星宇)
- 133 GAT-D陀螺经纬仪在长盾构区间测量中的研究与应用(朱辉)
- 136 高速铁路大直径深水钻孔灌注桩施工工艺探讨(王刚)
- 139 箱涵施工技术及应用探析(沈辉)
- 142 富水淤泥地层基坑开挖周边房屋沉降控制施工技术(崔建东, 李昌君)
- 145 市政工程中深基坑支护技术及其施工安全管理探讨(安斌)
- 148 临近大型文物孤石路堑边坡安全分析及对策(付星华)
- 151 预制装配式摆花施工技术在园林工程中的应用(李路佳)
- 155 异形钢环补偿盾构侧向始发施工技术(李由)
- 159 水泥混凝土道面维修和抢修过程中的问题及解决方案(李龙)
- 163 PC构件装配式建筑施工技术探析(胡江)

- 166 海外公路工程技术标准和指标的合理运用探析(董一楠)
- 170 复杂环境地段深基坑施工方法与控制技术探析(孙百新)
- 174 市政给排水施工中的非开挖顶管施工技术要点研究(杨宇)
- 177 钢结构厂房施工与安装质量控制措施分析(周桂林, 吴素惠)
- 180 绿色智能背景下的桥梁施工技术探究(刘贞雷)
- 183 老旧厂房的结构加固施工工艺分析(张驰, 文学, 包佳宝, 张晗, 陆立宇)
- 187 土木工程中桩基检测技术研究与应用(张天岳)

工程项目管理

- 190 谈俄罗斯建设工程总承包项目的施工图设计管理(张欣)
- 193 国防工程建设EPC模式的实践与思考(王业刚, 赵启阳)
- 196 水土保持工程质量控制样本分析(房振伟)
- 199 临空12号地块项目绿化景观设计及其开发建设模式创新研究(张瑛)
- 203 站场上跨立交施工管控的探讨(周宗敏)
- 206 大型微波暗室建设项目施工管理的要点解析(卢严)
- 209 常州市主城区工业排水户管理探讨(张肖梅, 郇璋, 仲志鸿, 孔明, 李国强, 王依竹)
- 213 EPC总承包模式下的建筑工程成本控制(冯甲林)
- 216 城乡一体化建设背景下的土地管理(石玉庆)
- 219 变电工程施工总承包模式下的项目管理要点研究(龚仕伟, 常飞飞, 党鹏, 邓军, 仇同雷)
- 222 隧道施工安全管理与风险预警技术应用(何旭基)
- 225 光伏发电经济产业财务效益的可行性研究(王胜男, 吴琦)
- 228 房屋建筑施工技术与质量控制探讨(傅川)
- 231 核电站大修项目管理的改进与提升策略探讨(金轶材)
- 234 建筑电气工程施工质量验收管理存在的问题和对策分析(高强)

INFORMATION

- 01 "The General Offices of the Two Departments Issued a Notice Specifying that the Leakage Rate of the National Urban Public Water Supply Network Will Strive to be Controlled Within 9% by 2025" Etc.6

Architectural and Structural Design

- 03 Modeling Computation and Comparative Analysis of Prestressed Concrete Wide Box Girder(WANG Yu)
- 07 Comparison of Two Structure Schemes for Retaining Wall in the Workshop(ZHAO Ming, HUANG Xiu-liang, LIN Jia-min)
- 10 Structural Analysis and Design of Inclined Columns in an Indoor Ski Resort(XU Sheng-xiang)
- 14 Planning and Design of Science and Technology Industrial Park Under the Transformation Background—— Taking Hefei Economic Development Zone Intelligent Scienceand Technology Park as an Example(HU Xiao-bo)
- 18 "The Soul of Heze, the Light of the City"——Research on Landscape Design of Heze Folk Art Park in Shandong Province(YAN Yu-jie)
- 21 Study on Village Planning Strategy in the Background of Rural Revitalization——Taking Daxinzhuang Five Villages, Lixian Town, Daxing District, Beijing City as an Example(YANG Lin-lin)
- 25 Analysis on Design Points of Photovoltaic Curtain Wall in Solar Photovoltaic Building Integration(JIANG Wen-hua)
- 28 Research on Design of Country Feature Space Based on Cultural Texture Reshaping——Taking Houshanzhongjian Village in Haiyang City, Shandong Province as an Example(MIN Wu-fei, YANG Ni, JIANG Li-ting)
- 31 Views of the Renewal and Transformation of Forms and Elements in the Old City from the Perspective of "Sustainability"——Taking Baita Temple Renewal as an Example(CHEN Wei-dong)
- 34 Optimization Design Study of Hilton Yilin Hotel(CHEN Yang)

Engineering Design of the Ground

- 37 Analysis of Geotechnical Engineering Investigation of Civil and Industrial Construction Projects Under the New Situation(WANG Fei)
- 40 Optimization Design of Foundation Pit Support for a Utility Tunnel Engineering(CUI Shuai)

Public Utilities Design

- 44 Research and Application of New Energy Saving of Underground Space Cold Source in Elevator Machine Room(JI Cui-lian, LIU Xiao-peng, GAN Xin-guang, SUN Ya-Lin, REN Chuan-lei)
- 47 Discussion on Causes and Countermeasures of Tower Collapse of Collector Line in Wind Farm(SHAO Ming-de)
- 50 Analysis of Lightning Protection Strategy for High-Speed Railway Traction Power Supply Catenary(XU Ping, DENG Meng)
- 53 Technical Measures for Noise Reduction and Vibration Reduction of Ventilation and Air Conditioning Systems(WANG Qiu-jiang)
- 56 Key Design Analysis of Natural Gas Pipeline in Utility Tunnel(LI Zhe)

Municipal-Traffic-Water Resources Engineering Design

- 60 Review for Research and Application of BIM Technology in Municipal Engineering(MA Wen-qi, ZHAO Jie, MA Ru-jie)
- 64 Discussion on Design of Urban Road Planar Intersections(LU Jian)
- 67 Analysis of Key Points in Design of Subgrade and Pavement in Settlement Section of Road and Bridge(XIONG Xian-da)
- 70 Research on Seismic and Wind Resistant Design Concept and Design Method of Bridge(ZHOU Jian-bo)
- 73 Discussion on Characteristics and Methods of Highway Bridge Construction Project Management(CHU Tie-cheng)
- 76 Research and Application Analysis of High Viscosity Modifier for Drainage Asphalt Pavement(LI Jia-qing)
- 79 Key Points of Lighting Design of Landscape Bridge(SUN Zhan, DONG Jian-ming)
- 82 Research on Manufacturing Technology of Orthotropic Steel Bridge Deck Plate(ZHUANG Qing-qing, MA Jing-xiao)
- 85 Construction Technical Analysis of River Embankment Protection Project in Water Conservancy Project(ZHANG Ping, DAI Cheng-gen, WANG Zheng)
- 88 Preliminary Study on Road Landscape Design of Industrial Park Under the Background of Park City(HE Mei-jun)
- 91 The Renewal and Exploration of Urban Road Classification System——Taking the Practice of Binhu District in Wuxi as an Example(CHENG Dan-xuan, GUO Yun, CHENG Can)
- 94 Analysis of Sponge City Construction and Municipal Water Supply and Drainage Strategy(XUE Jun)
- 97 Type Selection Design of Interchange Scheme for Multiway Intersection of Fenghuangshan Hub Interchange(ZHOU Chun-dong)
- 101 Thinking and Design of Rain and Sewage Diversion Transformation of Municipal Road Drainage Box Culvert(JIN Li, LIU Cong, LIU Xiao-kun, WANG Xiao-lin)

Intelligentize and Informatization

- 105 Research on Millimeter-Level Precision Control Method of Hyperbolic Track Based on BIM Technology(PENG Hui, LIU Sha-sha)
- 108 Rail Guided Vehicle Applied in the Shipyard Unmanned Steel Plate Storage Area(HAN Quan, QIN Zhong-wen, ZHAO Jian, XU Zhi-sheng, ZHANG Fan)

- 111 Application of New Surveying and Mapping Technology in Surveying and Mapping Engineering(WANG Jun)
- 114 Theory Application and Development of Engineering Construction Technology Under the Background of "New Infrastructure" and Intelligent Construction ——Based on Complex Steel Structure Engineering Construction(WEI Xin, OU De-xin, BAO Zun-jie)
- 117 Research on the Application of "BIM+3D Laser Scanning" Technology in Mountain Expressway Project Construction(GUO Deng, SHI Zheng-bao, CHEN Bao-xiang, XUE Jie, HU Wen-gen)

Construction Technology

- 120 Application of Sliding Mode Technology in Water Conservancy and Hydropower Engineering Construction(YANG Li-bing)
- 123 Application of Prestress Technology in Highway and Bridge Construction(XU Fu-jie)
- 126 Discussion on the Engineering Application of 600 MPa High-Strength Steel Bars(LIN Jia-min, YUAN Dan, JI Ji-nian, LIU Tian-tong, WANG Rui)
- 129 Application of a Three-Lattice Rectangular Sinking Well in Utility Tunnel Pipe Jacking Shaft(LIU Xing-yu)
- 133 Research and Application of GAT-D Gyro Theodolite in Long Shield Interval Measurement(ZHU Hui)
- 136 Discussion on Construction Technology of Large-Diameter and Deep-Water Bored Piles for High-Speed Railway(WANG Gang)
- 139 Analysis of Boxing Construction Technology and Application (SHEN Hui)
- 142 Construction Technology of Surrounding House Settlement Control of Foundation Pit Excavation of Water-Rich Soft Land Layer(CUI Jian-dong, LI Chang-jun)
- 145 Discussion on the Support Technology and Construction Safety Management of the Deep Foundation Pit Support in Municipal Engineering(AN Bin)
- 148 Safety Analysis of Adjacent Large Cultural Relic Lone Stone Road Cutting Slope(FU Xing-hua)
- 151 Application of Prefabricated Flowers Laying Construction Technology in Garden Engineering(LI Lu-jia)
- 155 Construction Technology of Side Launching with Irregular Shaped Extension Steel Ring of Shield Tunneling Machine(LI You)
- 159 Problems and Solutions in the Process of Repair and Emergency Repair of Cement Concrete Pavement(LI Long)
- 163 Analysis of PC Component Assembly Building Construction Technology(HU Jiang)
- 166 Rational Application of Technical Standards and Indicators in Overseas Highway Engineering(DONG Yi-nan)
- 170 Discussion on Construction Method and Control Technology of Deep Foundation Pit in Complex Environment Section(SUN Bai-xin)
- 174 Research on Key Points of Trenchless Pipe Jacking Technology in Municipal Water Supply and Drainage Construction(YANG Yu)
- 177 Analysis of Quality Control Measures for Construction and Installation of Steel Structure Workshop(ZHOU Gui-lin, WU Su-hui)

- 180 Exploration of Bridge Construction Technology Under the Background of Green Intelligence(LIU Zhen-lei)
- 183 Analysis on Construction Technology of Structural Reinforcement of Old Workshop(ZHANG Chi, WEN Xue, BAO Jia-bao, ZHANG Han, LU Li-yu)
- 187 Research and Application of Pile Foundation Detection Technology in Civil Engineering(ZHANG Tian-yue)

Project Management

- 190 Discussion on Construction Drawing Design Management of General Contracting Projects of Construction Engineering in Russia(ZHANG Xin)
- 193 Practice and Thinking on EPC Mode of National Defense Engineering Construction(WANG Ye-gang, ZHAO Qi-yang)
- 196 Analysis of Quality Control Samples of Soil and Water Conservation Engineering(FANG Zhen-wei)
- 199 Research on the Practice of Landscape Design and Development Mode Innovation of Parcel 12 of Linkong Economic Park (ZHANG Ying)
- 203 Discussion on Construction Control of Overpass Crossing Station Yard(ZHOU Zong-min)
- 206 Analysis on the Construction Management Points of Large Microwave Dark Room Construction Projects(LU Yan)
- 209 Discussion on the Management of Industrial Drainage Entity in the Main Urban Area of Changzhou City(ZHANG Xiao-mei, LI Zhang, ZHONG Zhi-hong, KONG Ming, LI Guo-qiang, WANG Yi-zhu)
- 213 Construction Engineering Cost Control in the EPC General Contracting Mode(FENG Jia-lin)
- 216 Land Management Under the Background of Urban-Rural Integration Construction(SHI Yu-qing)
- 219 Study on the Key Points of Project Management Under the Mode of General Contract for Substation Construction(GONG Shi-wei, CHANG Fei-fei, DANG Peng, DENG Jun, QIU Tong-lei)
- 222 Tunnel Construction Safety Management and Risk Early Warning Technology Application(HE Xu-ji)
- 225 Feasibility Analysis of Financial Benefit of Photovoltaic Economic Industry(WANG Sheng-nan, WU Qi)
- 228 Discussion on Construction Technology and Quality Control of Housing Building(FU Chuan)
- 231 Discussion on Improvement and Promotion Strategy of Nuclear Power Plant Overhaul Project Management(JIN Yi-cai)
- 234 Analysis of Problems and Countermeasures in Construction Quality Acceptance Management of Building Electrical Engineering (GAO Qiang)



中国中元国际工程有限公司

CHINA IPPR INTERNATIONAL ENGINEERING CO., LTD.



广告

地址：北京市西三环北路5号 邮编：100089 电话：(010) 68458355 传真：(010) 68732688 网址：<http://www.ippr.com.cn> 邮箱：office@ippr.net