

工程建设与设计



2020 / 12 / 目次

建筑与结构设计

C

- 1 纽约区划制度与建筑特色(宣建华)
- 4 大跨度网架结构设计(张英会)
- 6 建筑设计创新思维模式(陈汉萍)
- 8 FF&E在室内设计中的运用及重要性(时琴)
- 10 预制装配式建筑设计实践及问题探讨(韦海璐)
- 12 朔州市平川地区生态空间结构布局研究(符岐)
- 14 建筑消防设施检测问题分析(张正华)
- 16 绿色生态校园规划建设研究实践(曹书乐,喻凯)
- 18 变电站土建结构设计存在的问题及处理方案研究(孙凯)
- 20 现代主义建筑格局与"栖居"诉求的冲突及其出路(林晶莹)
- 22 高层建筑结构健康监测的研究与应用(吴天俊)
- 24 工业厂房建筑结构设计优化探究(莫云子)
- 26 论医疗建筑设计中的空间优化措施(魏清桥)
- 28 医药行业洁净厂房给排水消防设计探讨(赵凯)

基础工程设计

- 30 某工程地下室基础抗浮锚杆设计(高琴贤)
- 32 苏北东部地区地下水渗透系数分析(邱怀松)
- 34 不同深基坑开挖与支护方式对地下通道变形的影响(李金萍)

公用工程设计

- 36 江坪河水轮发电机定子现场装配(蒋国陵)
- 38 电气工程及其自动化的质量控制与安全管理(刘刚)
- 40 建筑电气设计中的节能措施探讨(李筱华)

市政·交通·水利工程设计

- 42 市政给排水规划与设计常见问题分析(张绪贵)
- 44 科特迪瓦奥贝路红土砾料的应用技术(曹彪)
- 46 上海市嘉闵高架路南段关键技术分析研究(王亚)
- 48 隧道斜井反坡抽排水技术(江志刚)
- 50 山区高速公路多雾路段特征识别分析研究(周礼平,朱承前)
- 52 绿色低碳理念下的现代城市交通规划措施分析(邵力)
- 54 现浇梁式桥支架脱模用自锁式卸荷块的力学特性分析(余进)
- 56 新建龙游港疏港铁路方案研究(张旭)
- 59 考虑曲线加宽的有轨电车线路同心圆设计(孙伟)
- 62 软弱地层中盾构掘进姿态控制(廖云洋)
- 65 天水市有轨电车二期工程天水三中至天水郡段线路方案研究

(金泽宇)

- 68 城市道路改造项目规划设计方案要点分析(季刚)
- 70 矿用900mm轨距38kg/m钢轨预应力混凝土枕的设计(宋立国)
- 73 城市互通匝道桥设计研究(黄夏雨)
- 75 大型交通项目设计盲点分析(郑勇驻)
- 77 高聚物抬升无砟轨道服役期沉降研究(毛建红)
- 79 门架式桩板墙在路基边坡中的设计及应用(安宝平)
- 81 基于无线通信的列车自动控制系统施工技术研究(尚俊)
- 83 城市轨道交通施工中临时用电问题探讨(郑鹏)
- 85 CTCS-2与CTCS-3级列车控制系统等级转换方案研究(王菲)
- 87 道路与桥梁工程检测及技术管理要点(朱召)
- 89 市政道路设计工作中需要注意的问题(杨超农)
- 91 高速公路沥青路面早期病害的原因分析及养护措施(王磊)
- 93 高速公路沥青路面耐久性及早期损坏分析(魏健,徐承明,陈毅)
- 95 大跨度预应力混凝土桥梁施工控制技术要点(蔡进宝)
- 97 尉犁县实施河(湖)长制对塔里木河生态修复工作的影响研究 (李芳)
- 99 综合考虑堆石体复杂特性的颗粒流高精度高效率模拟新方法 (赵佩臣,刘玉凤)
- 102 软岩坝基带状延伸微薄透镜体渗透性改良实践(高德树)
- 105 水电站围堰防渗和坝基灌浆施工新技术研究(田巍)
- 107 农田水利工程灌溉规划设计的要点研究(杨江勇)

工业工程设计

- **109** 燃料棒上端塞TIG环缝内壁减薄形成原因分析 (陈兵兵,盛国福,姚俊,高明月,唐顺安)
- 111 现代船厂规划设计综述(郝金栋)
- 113 高铁预制梁场钢筋加工车间的新型布局设计(杨基好)

环境工程设计

- **115** 天津某工业园污水处理厂提标改造工程设计实例 (文丽青,颜廷文)
- 118 农村生活污水处理现状及处理工艺分析(张胜祥,张声皓,孙云帆)
- **120** 城市污水处理项目的环境影响评价分析 (陈命男,景有志,谢文艳)
- **123** 垃圾焚烧发电厂废水零排放工艺及其环境经济效益探讨 (韩少龙,张阳阳,张敏)
- 125 600t/d垃圾焚烧炉燃烧运行与结构优化研究(宋兴健)

C O N T E N T S

工程施工技术

- 127 硅藻土复杂地质条件下钻孔灌注桩施工研究(杨铁梁)
- 129 人工挖孔灌注桩施工技术(贾旭恒)
- **131** 结合案例谈城中村排水立管安装施工方法的比选 (付海军,孟振虎,蔡志标)
- 133 抗浮锚杆施工技术研究(吕权,孟凡元,史海悦,乔繁华,刘学英)
- 135 高速公路路基施工及质量控制(王秉旺)
- 137 新形势下高速公路桥梁桩基施工要点分析(杨日召)
- 139 基于PC构件的新型装配式建筑施工技术研究(赫强)
- 141 大体积薄壁混凝土结构裂缝的成因及控制措施分析(陈武林)
- 143 综合物探方法在海塘隐患探测中的应用(王晓萌)
- 145 开级配沥青磨耗层路面施工技术(牛桂兵)
- 147 劲性复合桩技术在工业厂房工程中的应用(周锋,曹桐)
- 149 超高层建筑施工中铝合金模板应用研究(孔祥鑫,凌倩晴,冯强)
- 151 路桥深基坑工程施工技术(刘志勇)
- 153 高速公路快速除雪防滑施工要点分析(于海明)
- 155 路桥施工中的软土地基处理分析(陈盼)
- 157 高速公路桥涵施工技术及质量控制(李泽智)
- 159 道路路基土方填筑压实施工技术分析(张岳欣)
- 161 油气公共管廊混凝土框架装配式螺栓连接关键技术研究(刘伟)
- 163 建筑工程桩基础施工技术要点(严俊佳)
- 165 探究市政道路桥梁施工要点及现场管理(刘楠)
- **167** 混凝土装配式住宅建筑工程施工技术的优势分析 (单庆波,薛海彬,张进明,刘尚凯)
- 169 市政道路工程施工方法与质量控制(田丰)
- 171 高速公路沥青路面工程施工探究(黄攀)
- 173 房屋建筑结构加固技术及施工技术要点探究(史桂德)

工程項目管理

- **175** FIDIC施工合同条件下业主延期价调对项目成本/收益的影响研究 (李文涛)
- 178 永昌县东河灌区人饮供水工程管理探讨(何兴祖)
- 180 新疆供水二期工程质量管理工作分析(张惠兰)
- 182 优化施工方案对施工成本的影响研究(李凯)
- 184 综合管理在南京梅山工程总承包项目中的实践(丘滨)
- 186 电力建设工程项目安全风险分级管控体系建设分析(刘声俊)
- 189 典型地区电供暖价格设计估算(朱婧,潘方圆,王静,任川山)
- 191 山岭隧道群施工中钢构件集中加工的安全管控分析(曾洁)

- 193 关于港口工程建设质量管理的思考(张伟杰)
- **195** 铸管企业绿色铸造与环保提升实践 (何齐书,梁增辉,谷兴海,许国方,张涛,张俊杰)
- 197 建筑工程现场管理中流水施工的应用分析(宋春雷)
- 199 设计变更对市政工程造价的影响与控制分析(刘国林)
- 201 建筑工程施工进度管理与控制(任菊萍)
- 203 房屋建筑工程的混凝土施工质量控制(廖第峰,骆利斌)
- 205 石油化工工程建设中管道安装与质量评价(符海彤)
- 207 道路桥梁施工与养护管理分析(江乃敏)
- 209 房屋建筑工程施工技术及现场施工管理(曹桐,郭靖)
- 211 工程施工安全管理防范策略研究(张宏伟)
- 213 高速公路建设工程现场文明施工管理(曹晓青)
- 215 建筑行业起重类特种设备安全管理分析(刘新晖)
- 217 道路桥梁施工管理中的问题和解决措施分析(张云)
- 219 国省干线公路养护施工管理存在的问题及对策分析(王巍)
- 221 建筑工程管理模式现状及创新分析(毕智明)
- 223 电力工程项目管理问题探析(赵会龙)
- 225 绿色施工理念下的建筑工程管理模式创新思考(袁安国)
- **228** 高校建设项目决策与设计阶段的建设投资影响因素分析 (程超, 葛子勤, 王亚红)
- 230 市政道路路基施工质量管理分析(邓德贵)
- 232 房地产开发项目施工管理的若干问题与对策(刘伟)
- 234 探析水闸运行中的安全管理对策(杨银河)

智能与信息化

- **236** 某起竖机构起竖速度过慢误报警问题分析与对策 (王志勇,李博,刘海阳)
- **238** 基于AUTOCAD的三维矿体模型构建及资源储量估算 (张平,刘孟合)
- 240 三维数字化移交技术在化工工程设计中的应用探究(徐晓晔)
- 242 无人机遥感测绘在基坑监测中的应用研究(胡贝)
- 244 BIM技术在某线路规划设计中的应用(吕林潞)
- 246 泵站电气自动化控制中智能化技术的发展及应用(张金磊)
- **248** 基于区块链与BIM技术的绿色建筑管理平台的应用研究 (张园园,陈立,章洁,阎瑞敏)
- 250 高铁箱梁制梁场模块化BIM建造关键技术(张勇)
- 252 无人机倾斜摄影测量技术在农村房地一体测绘中的应用(赵福超)
- 255 土地勘测定界内业数据处理技术研究(梁带敬)

Architectural and Structural Design

- Zoning Ordinance and Architectural Characteristics of New York City (XUAN Jian-hua)
- 4 Design of Large Span Grid Structure(ZHANG Ying-hui)
- 6 Innovative Thinking Mode of Architectural Design(CHEN Han-ping)
- 8 The Application of FF&E in Interior Design and Its Importance(SHI Qin)
- 10 Design Practice and Problems of Prefabricated Building(WEI Hai-lu)
- 12 Study on the Layout of Ecological Space Structure in Pingchuan Area of Shuozhou(FU Qi)
- 14 Analysis on the Inspection Problem of Building Fire Protection Facilities (ZHANG Zheng-hua)
- 16 Research and Practice of Planning and Construction of Green Ecological Campus(CAO Shu-le, YU Kai)
- 18 Research on the Problems Existing in the Design of Substation Civil Structure and Its Solution(SUN Kai)
- 20 The Conflict Between Modernist Architectural Pattern and the Appeal of Dwelling and the Countermeasures(LIN Jing-ying)
- 22 Research of Health Monitoring for High-Rise Building Structures and Its Application(WU Tian-jun)
- 24 Research on the Optimization of Building Structure Design of Industrial Plant (MO Yun-zi)
- 26 Discussion on the Space Optimization Measures in Medical Building Design (WEI Qing-qiao)
- 28 Discussion on Water Supply-Drainage and Fire Extinguishing System Design of Clean Room in Pharmaceutical Industry(ZHAO Kai)

Engineering Design of the Ground

- 30 Design of Anti-Floating Anchor Rod for Basement of a Project (GAO Qin-xian)
- 32 Analysis of Groundwater Permeability Coefficient in the Eastern Part of Jiangsu Province(QIU Huai-song)
- 34 The Influence of Different Excavation and Supporting Methods of Deep Foundation Pit on the Deformation of Underground Passage(LI Jin-ping)

Public Utilities Design

- 36 Field Assembly of Hydrogenerator Stator of Jiangping River(JIANG Guo-ling)
- 38 Quality Control and Safety Management of Electrical Engineering and Automation(LIU Gang)
- 40 Discussion on the Energy-Saving Measures in Building Electrical Design (LI Xiao-hua)

Municipal · Traffic · Water Resources Engineering Design

- 42 Analysis of Common Problems in the Planning and Design of Municipal Water Supply and Drainage(ZHANG Xu-gui)
- 44 The Application Technology of Laterite Gravel Material on Aobe Road in Cote d'Ivoire(CAO Biao)
- 46 Key Technology Analysis and Research on the South Section of Jiamin Viaduct in Shanghai(WANG Ya)
- 48 Reverse Slope Drainage Technology of Tunnel Inclined Shaft(JIANG Zhi-gang)
- 50 Analysis on the Characteristic Identification of Multi-Fog Section in Mountain Highway(ZHOU Li-ping, ZHU Cheng-qian)
- 52 Analysis of Modern Urban Traffic Planning Measures Under the Concept of Green and Low Carbon(SHAO Li)
- 54 Analysis of Mechanical Characteristics of Self-Locking Unloading Block for Stents Demold of Cast-in-Place Beam Bridge(YU Jin)
- 56 Study on the Scheme of Dredging Port Railway of New Longyou Port (ZHANG Xu)
- 59 Concentric Circle Design for Tram Lines Considering the Widening of Curves(SUN Wei)
- 62 Attitude Control of Shield Tunneling in Weak Stratum(LIAO Yun-yang)
- 65 Route Solution Research of Tianshui No.3 Middle School to Tianshuijun Section in Tianshui Tram Phase II Project(JIN Ze-yu)
- 68 Analysis of the Key Points of Planning and Design Scheme of Urban Road Reconstruction Project(JI Gang)

2020 / 12 / CONTENTS

- 70 Design of 38kg/m Rail Prestressed Concrete Sleeper with 900mm Gauge for Mining(SONG Li-guo)
- 73 Study on the Design of Urban Interchange Ramp Bridge(HUANG Xia-yu)
- 75 Analysis of Blind Spots in the Design of Large-Scale Transportation Projects (ZHENG Yong-zhu)
- 77 Study on the Settlement of High Polymer Uplift Ballastless Track During Service Period(MAO Jian-hong)
- 79 Design and Application of Portal Pile-Slab Wall in Roadbed Slope(AN Bao-ping)
- 81 Research on the Construction Technology of Automatic Train Control System Based on Wireless Communication(SHANG Jun)
- 83 Discussion on Temporary Power Consumption in Urban Rail Transit Construction(ZHENG Peng)
- 85 Study on the Conversion Scheme of CTCS-2 and CTCS-3 Train Control Systems(WANG Fei)
- 87 Inspection Key Points and Technical Management of Road and Bridge Engineering(ZHU Zhao)
- 89 Problems Needing Attention in the Design of Municipal Roads
 (YANG Chao-nong)
- 91 Cause Analysis and Maintenance Measures of Early Diseases of Expressway
 Asphalt Pavement(WANG Lei)
- 93 Analysis of the Durability and Early Damage of Highway Asphalt Pavement(WEI Jian, XU Cheng-ming, CHEN Yi)
- 95 Main Points of Construction Control for Long-Span Prestressed Concrete Bridge(CAI Jin-bao)
- 97 Research on the Influence of River (Lake) Monitor System on the Ecological Restoration of Tarim River in Weili County(LI Fang)
- 99 A New Method for Simulating the Strength and Deformation Behavior of Rockfill with High Efficiency and Accuracy, Considering the Complicated Physical Characteristics(ZHAO Pei-chen, LIU Yu-feng)
- 102 A Practice About the Permeability Improvement of Tiny Band-Extended
 Lenses in a Dam Foundation with Soft Rock Mass(GAO De-shu)
- 105 Research on the New Technology of Seepage Control and Dam Foundation Grouting Construction in Hydropower Station(TIAN Wei)
- 107 Research on the Key Points of Irrigation Planning and Design for Farmland Water Conservancy Projects(YANG Jiang-yong)

Industrial Engineering Design

- Analysis on the Causes of the Thinning of the Internal Wall of the TIG Annular Slot of the Fuel Rod Upper Plug(CHEN Bing-bing, SHENG Guo-fu, YAO Jun, GAO Ming-yue, TANG Shun-an)
- 111 Summary of Modern Shipyard Planning and Design(HAO Jin-dong)
- 113 New Layout Design of Steel Bar Processing Workshop in High-Speed Railway Precast Beam Yard(YANG Ji-hao)

Environment Engineering Design

- 115 A Design Example of Wastewater Treatment Plant Upgrading in an Industrial Park in Tianjin(WEN Li-qing, YAN Ting-wen)
- 118 Analysis on the Current Situation and Treatment Technology of Rural
 Domestic Sewage(ZHANG Sheng-xiang, ZHANG Sheng-hao, SUN Yun-fan)
- 120 Analysis of Environmental Impact Assessment of Urban Sewage Treatment Project(CHEN Ming-nan, JING You-zhi, XIE Wen-yan)
- 123 Discussion on Zero Discharge Process of Waste Water from Waste Incineration Power Plant and Its Environmental and Economic Benefits (HAN Shao-long, ZHANG Yang-yang, ZHANG Min)
- 125 Research on the Combustion Operation and Structure Optimization of 600t/d Waste Incinerator(SONG Xing-jian)

Construction Technology

- 127 Study on the Construction of Bored Cast—in—Place Pile Under Complex Geological Conditions of Diatomite(YANG Tie–liang)
- 129 Construction Technology of Manual Digging and Pouring Pile(IIA Xu-heng)
- 131 Discussion on the Comparison and Selection of Installation Methods of Drainage Riser in Urban Village Combing with Cases (FU Hai-jun, MENG Zhen-hu, CAI Zhi-biao)

- 133 Study on the Construction Technology of Anti-Floating Anchor(LYU Quan, MENG Fan-yuan, SHI Hai-yue, QIAO Fan-hua, LIU Xue-ying)
- 135 Highway Subgrade Construction and Quality Control(WANG Bing-wang)
- 137 Analysis of Construction Essentials of Pile Foundation of Expressway Bridge Under New Situation(YANG Ri-zhao)
- 139 Research on the Construction Technology of New Assembly Building Based on PC Component(HE Qiang)
- 141 The Causes and Control Measures Analysis of Cracks in Mass Thin Wall Concrete Structure(CHEN Wu-lin)
- 143 The Application of Comprehensive Geophysical Prospecting Method in the Detection of Hidden Danger in Seawall(WANG Xiao-meng)
- 145 Pavement Construction Technology of Graded Asphalt Grinding Layer (NIU Gui-bing)
- 147 The Application of Stiffening Composite Pile Technology in Industrial Workshop Engineering(ZHOU Feng, CAO Tong)
- 149 Study on the Application of Aluminum Alloy Formwork in the Construction of Super High-Rise Building(KONG Xiang-xin, LING Qian-qing, FENG Qiang)
- 151 Construction Technology of Deep Foundation Pit of Road and Bridge Engineering(LIU Zhi-yong)
- 153 Analysis of Construction Essentials of Fast Snow Removal and Skid Prevention for Expressway(YU Hai-ming)
- 155 Analysis of Soft Soil Foundation Treatment in Road and Bridge Construction (CHEN Pan)
- 157 Construction Technology and Quality Control of Expressway Bridge and Culvert(LI Ze-zhi)
- 159 Analysis of Construction Technology of Earthwork Filling and Compaction of Roads(ZHANG Yue-xin)
- 161 Research on the Key Technology of Assembled Bolt Connection of Concrete Frame of Oil and Gas Public Pipe Gallery(LIU Wei)
- 163 Key Technical Points of Pile Foundation Construction in Building Engineering (YAN Jun-jia)
- 165 Exploration on the Key Points of Municipal Road and Bridge Construction and Site Management(LIU Nan)
- 167 Analysis on the Advantages of Construction Technology of Concrete
 Prefabricated Residential Building Project(SHAN Qing-bo, XUE Hai-bin,
 ZHANG Jin-ming, LIU Shang-kai)
- 169 Construction Method and Quality Control of Municipal Road Engineering (TIAN Feng)
- 171 Research on the Asphalt Pavement Construction of Expressway(HUANG Pan)
- 173 Research on the Key Points of Reinforcement Technology and Construction Technology of Building Structure(SHI Gui-de)

Project Management

- 175 Research on the Influence of Price Adjustment Elements on Project Cost/ Revenue Under FIDIC Conditions of Contract for Construction and Delay Due to Owner(LI Wen-tao)
- 178 Discussion on the Management of Drinking Water Supply Project in Donghe Irrigation District of Yongchang County(HE Xing-zu)
- 180 Analysis of the Quality Management Work of Xinjiang Water Supply Phase II Project(ZHANG Hui-lan)
- 182 Study on the Influence of Optimized Construction Scheme on Construction Cost(LI Kai)
- 184 The Practice of Comprehensive Management in Meishan General Contracting Project in Nanjing(QIU Bin)
- 186 Analysis of the Construction of Safety Risk Classification Management and Control System for Power Construction Project(LIU Sheng-jun)
- 189 Design and Estimate of Electric Heating Price in Typical Areas(ZHU Jing, PAN Fang-yuan, WANG Jing, REN Chuan-shan)
- 191 Analysis on Safety Control of Centralized Processing of Steel Members in Mountain Tunnel Group Construction(ZENG Jie)
- 193 Thoughts on Quality Management of Port Engineering Construction (ZHANG Wei-iie)
- 195 Practice of Green Casting and Environmental Protection Promotion in Casting Pipe Enterprises(HE Qi-shu, LIANG Zeng-hui, GU Xing-hai,

- XU Guo-fang, ZHANG Tao, ZHANG Jun-jie)
- 197 Analysis of the Application of Flow Construction in Site Management of Construction Projects(SONG Chun-lei)
- 199 Analysis of the Influence and Control of Design Change on Municipal Engineering Cost(LIU Guo-lin)
- 201 Construction Schedule Management and Control(REN Ju-ping)
- 203 Quality Control of Concrete Construction of Housing Construction Projects (LIAO Di-feng, LUO Li-bin)
- 205 Pipeline Installation and Quality Evaluation in Petrochemical Engineering Construction(FU Hai-tong)
- 207 Analysis of Road and Bridge Construction and Maintenance Management (JIANG Nai-min)
- 209 Building Construction Technology and Site Construction Management (CAO Tong, GUO Jing)
- 211 Research on the Prevention Strategy of Construction Safety Management (ZHANG Hong-wei)
- 213 Highway Construction Project Site Civilized Construction Management (CAO Xiao-qing)
- 215 Safety Management Analysis of Special Lifting Equipment in Construction Industry(LIU Xin-hui)
- 217 Analysis of Problems and Solutions in Road and Bridge Construction Management(ZHANG Yun)
- 219 Analysis of the Existing Problems and Countermeasures in the Maintenance and Construction Management of National and Provincial Trunk Highways (WANG Wei)
- 221 Current Situation and Innovation Analysis of Construction Project Management Mode(BI Zhi-ming)
- 223 Analysis of the Problems in the Electric Power Project Management (ZHAO Hui-long)
- 225 Innovative Thinking on the Management Mode of Building Engineering
 Under the Concept of Green Construction(YUAN An-guo)
- 228 Analysis of the Influencing Factors of Construction Investment in Decision-Making and Design Stage of University Construction Project (CHENG Chao, GE Zi-qin, WANG Ya-hong)
- 230 Analysis of the Construction Quality Management of Municipal Road Subgrade(DENG De-gui)
- 232 Some Problems and Countermeasures of Construction Management of Real Estate Development Projects(LIU Wei)
- 234 Discussion on the Safety Management Countermeasures in Sluice Operation (YANG Yin-he)

Intelligentialize and informatization

- 236 Analysis on the False Alarm Problem Caused by Too Slow Erecting Speed of a Erecting Mechanism and the Countermeasures(WANG Zhi-yong, LI Bo, LIU Hai-yang)
- 238 3D Orebody Model Construction and Resource Reserve Estimation Based on AUTOCAD(ZHANG Ping, LIU Meng-he)
- 240 Application Research of 3D Digital Transfer Technology in Chemical Engineering Design(XU Xiao-ye)
- 242 The Application of UAV Remote Sensing Surveying and Mapping in Foundation Pit Monitoring(HU Bei)
- 244 The Application of BIM Technology in the Planning and Design of a Certain Line(LV Lin-lu)
- 246 Development and Application of Intelligent Technology in Electric Automation Control of Pumping Station(ZHANG Jin-lei)
- 248 Application Research of Green Building Management Platform Based on Block Chain and BIM Technology(ZHANG Yuan-yuan, CHEN Li, ZHANG Jie, YAN Rui-min)
- 250 The Key Technology of Modular BIM Construction for High Speed Railway Box Girder Fabrication Field(ZHANG Yong)
- 252 The Application of UAV Tilt Photogrammetry Technology in Integrated Surveying and Mapping of Rural Real Estate(ZHAO Fu-chao)
- 255 Research on the Data Processing Technology of Land Survey and Boundary (LIANG Dai-jing)





中国中元国际工程有限公司

CHINA IPPR INTERNATIONAL ENGINEERING CO., LTD.

