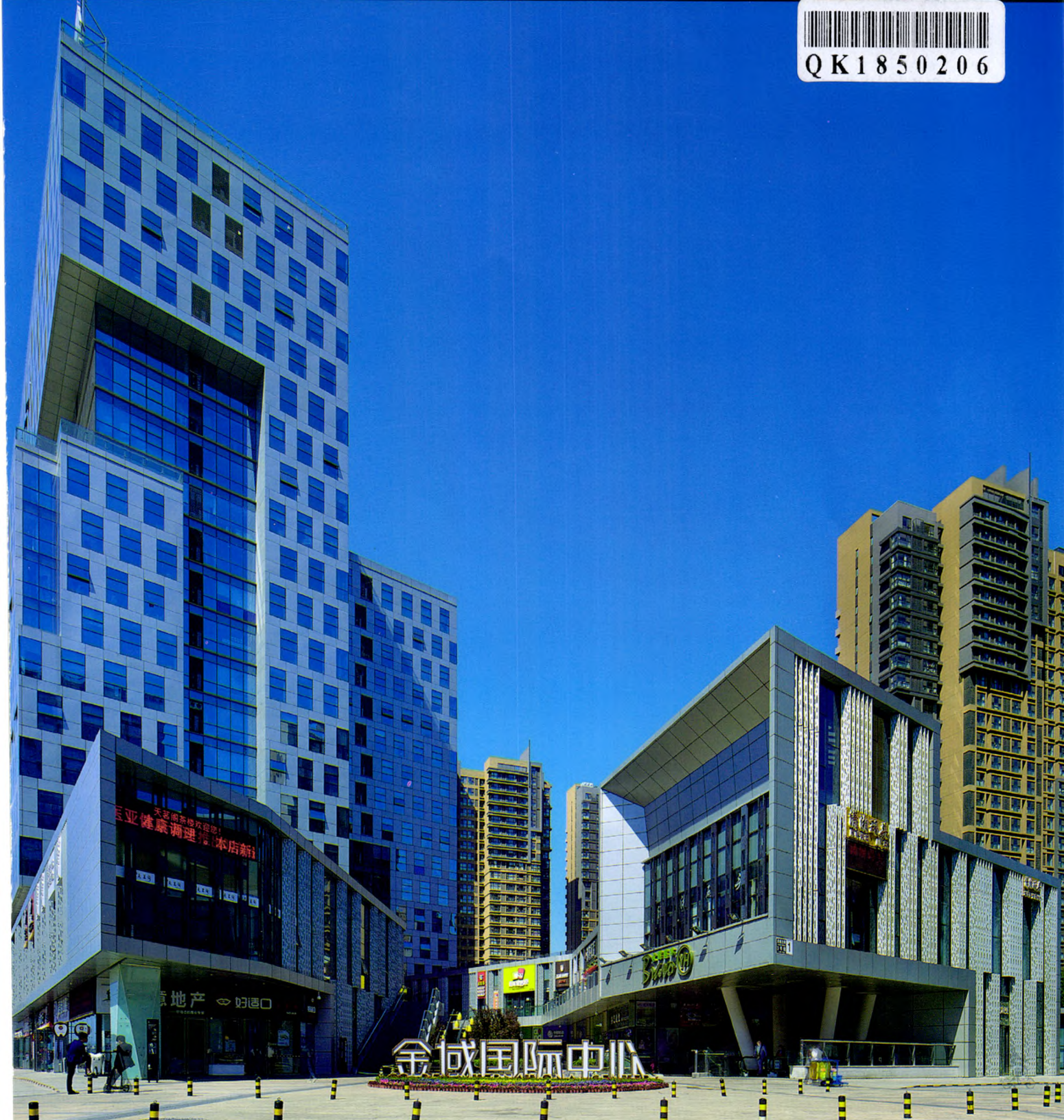
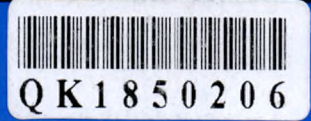




工程建设与设计

主办: 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 2018 年第 10 月上 总第 393 期



金域国际中心

金域国际中心
北京市住宅建筑设计研究院有限公司
万方数据

ISSN 1007-3914
9 771007 391187

动态资讯

- 07 “北京市住宅将推广装配式装修标准 10月1日起正式实施”
等信息8则

论坛

- 10 粗粒土颗粒连续级配方程研究
13 谈一种地下室外墙后浇带快建体系
16 铅锌矿地球化学特征及找矿方向

建筑与结构设计

- 19 北京地区高层住宅自然通风与外窗开启设计 (刘银燕, 张时幸)
22 城市钢厂产城融合路径方法的思考与实践 (范新库)
26 对历史保护建筑的质量鉴定与加固改造探究 (张于, 邢锐, 郑蓝华)
29 反应堆厂房电气支吊架力学分析方法探讨 (刘正虎)
32 论深化设计对房屋建筑工程的重要意义 (刘雪文)
34 摇摆填充墙-框架结构抗震设计方法研究 (杨树标, 王浩, 贾剑辉, 冯孟超)
38 房屋建筑结构设计常见问题分析 (张波)
40 成都万达城室内娱乐乐园大跨屋盖结构方案研究 (石路也, 卜龙瑰)

基础工程设计

- 43 软土加固区低路堤动力响应及高度设计 (王伟清)
46 基于层间接触状态的沥青结构层受力分析及数值计算研究 (吕会)
49 常州轨道交通2号线基坑岩土工程问题分析 (武景淑)
52 道路桥梁过渡段软基路面的施工 (张冰清, 朱德庆)
54 对地铁深基坑支护结构设计及支护施工技术的探讨 (张伟)
56 混凝土强度对异形柱下扩展基础冲切性能影响研究 (徐秀凤, 孔子昂)
59 贵州关岭组顺层边坡多层滑面空间形态及其力学参数探讨 (邹洋, 费正耀)

- 61 对锚桩横梁静载试验法的探讨 (沈园园, 郭晔, 覃永忠)
64 谈住宅工程回填区填土及边坡岩土工程勘察方法及应用 (张青云, 邓春艳)
67 地基设计和岩土工程勘察中的问题与合理应对分析 (李秀娟)
70 谈水泥稳定碎石路面基层施工技术 (闫志军)
72 复杂液化地基处理的工程应用 (何汗宇, 王瑞杰, 张新东, 马炎峰)
75 水利工程土工试验原状土制备的步骤及注意问题 (张英勃)
77 浅议防城港岩土疏浚工程问题 (卢超健, 蒋贵)
82 谈湿陷性黄土形成原因和处理措施 (袁文金)
84 对柱下独立基础抗冲切与抗剪承载力计算的分析与建议 (张靖静, 张翊帆)
88 谈市政道路路基边坡防护及加固措施 (王强)
90 测绘工程中特殊地形的测绘方法 (杨帆)

公用工程设计

- 93 10kV配网规划设计的关键点分析 (刘才进)
95 对贵州山区城乡供水巩固提升工程设计的总结 (沈春山, 王柏淳, 黎灿堃)

市政·交通·水利工程设计

- 98 地铁暗挖区间下穿排水管线动态设计与施工 (邵葳)
101 大跨度高塔半漂浮体系斜拉桥荷载试验与结构性能分析 (刘芳芳)
105 高速公路服务区场区设计提升措施探析 (修学华, 张方晴)
108 矿山法修建水下隧道的设计要点 (李浩)
110 标准化站场雨水设计研究 (孟瑶琳, 赵玉慧, 高海云, 张雅茹)
112 特殊桥面铺装的浇注式沥青混凝土施工控制要点 (陈军)
115 浅谈混合梁在我国桥梁中的应用与设计要点 (米肖松)
118 新型隧道智能化防水板与钢筋铺挂台车结构设计分析 (张凯)
120 基于PLC冗余技术的皮带机控制系统设计与实现 (陈倩芸, 邓克勇, 李志俊)
125 公路路基防护设计与加固技术措施分析 (黄春晓)
127 高速公路旧水泥路面结构强度评价方法分析 (龙继伟)
130 高速公路工程软土路基施工技术分析 (成晓)
132 山区高速公路涵洞设计问题探讨 (贾运宝)
135 铁路桥梁薄壁空心高墩施工技术分析 (吴晓雷)
137 大型水利泵站机电设备安装和检修技术 (任正福)
140 公路沥青路面裂缝产生原因及防治措施 (黄宁)
142 桥梁抗震设计要点分析 (付伟)

制造工程设计

- 145 大型造船门式起重机运行机构啃轨问题研究 (刘涛伟, 翟虎道)
- 148 高水头、高转速冲击式水轮机水导轴承甩油分析及改造 (张夏博, 王华)

环境工程设计

- 150 A0工艺污水处理改扩建项目优化设计研究 (张世翔, 李玉峰)
- 155 石油化工厂危险废物焚烧炉技术比选 (江奇志)
- 158 青岛市生活垃圾无害化处理及资源化利用思考 (臧传龙, 任尊, 徐敏)

智能与信息化

- 161 热工自动化技术在火力发电中的应用与创新 (檀炜)
- 164 BIM技术在电动汽车充电站施工中的应用研究 (杨茜)
- 167 试析BIM技术在绿色建筑中的应用 (赵婵媛)
- 169 渠江云谷的机电智能化创新设计探讨 (李文兴)

工程施工技术

- 172 隧道机械化钻爆法施工特点及应用研究 (王孝贤, 郭健, 原朝林, 王南)
- 175 真空辅助一次压注顶管内混凝土施工技术 (许友刚)
- 178 涉外地下道路涵工程的基坑围护、降水与防水技术 (王翰广)
- 181 中小跨径桥梁的支座病害分析及改善措施研究 (王如寒)
- 184 水泥基渗透结晶型防水材料在海外某工程中的应用 (张战祥, 蓝丽江)
- 187 大体积钢架整体同步顶升施工技术的应用与分析 (马彬彬)
- 190 谈公路桥梁桩基中存在的施工及检测问题 (肖立宝, 高景渤)
- 192 无焊孔梁柱节点的衬板安装焊缝长度取值研究 (李然, 李军, 王聪)
- 196 西北高寒地区邻近既有水库铁路石方爆破控制技术 (崔永续)
- 198 岩溶富水地层隧道施工处治技术研究 (杨平)
- 201 楼房建筑中施工技术的应用与创新研究 (武培孝)
- 203 高陡岩石边坡垂直绿化植物生长单元施工技术研究 (孟亚武)
- 206 路桥工程中沥青路面裂缝的产生原因及防治措施 (朱德庆)
- 208 利用新奥法原理开展某高速公路隧道施工的经验及体会 (凌振国)
- 211 复杂环境下城市综合体施工组织及关键技术 (曹庆文)
- 213 隧道水压爆破施工技术研究 (田新)
- 216 高速公路沥青路面施工中的关键技术探讨 (侯利波)

- 218 砖混改底框中墙体的托换设计与施工 (王艳武, 张志明)
- 221 谈桥梁下部构造施工技术经验 (闫鹏飞, 张海蛟)
- 223 市政工程顶管施工关键技术 (王荣荣, 汪振红)
- 226 高速公路沥青路面常见病害原因分析与处治措施 (黄凌)
- 228 大跨径连续桥梁施工关键技术研究 (胡文堂)
- 231 公路桥梁施工管理、养护及加固维修 (焦平均)
- 233 建德杨长线公路边坡地质灾害特征及防治措施 (沈杰, 吴春晖, 何旭峰)
- 236 桥梁毛勒缝混凝土破损采用环氧树脂混凝土修复施工工艺 (郭术铭)
- 238 沉井施工技术在给排水构筑物施工中的应用 (化宗礼)
- 241 高层建筑工程项目建设中建筑施工技术的应用探讨 (高强)
- 243 浅析双车道隧道内预制T梁施工技术 (张家宇)
- 246 桥梁施工技术及裂缝成因分析 (李铁刚)
- 248 铁路建设项目质量监督研究 (何伟)

工程项目管理

- 251 海外施工船舶船机运转保障分析 (蒋嘉伟)
- 254 社区卫生服务中心改扩建工程的管理与造价控制 (王国权, 张雯莉, 张志涛)
- 257 日本住宅建筑全生命周期管理的启示 (吴德华, 吴豪)
- 262 试析业主方在高速公路工程施工中的协调作用 (李进)
- 265 科研单位基建项目设计管理提升的措施及实践 (何鹏, 叶旭明, 布春磊, 杨志胜)
- 268 基坑支护形式与基坑支护结构选型经验分析 (尹娜)
- 270 谈高性能混凝土施工质量控制 (韦刚, 谢前军)
- 273 适应于水文体制改革的泥沙测验技术研究 (姜茂成)
- 275 试论PPP模式下公路设计中的造价控制措施 (代红凤)
- 278 谈高速公路沥青路面养护管理措施 (严冬)
- 280 海外工程分包管理的探讨 (李毅超)
- 283 公路桥梁工程预制梁施工管理探讨与实践 (李平)
- 285 对施工企业合理确定投标报价, 提高利润空间措施的探讨 (周占红)
- 288 建筑桩基工程施工质量控制分析探述 (贾冲)
- 290 论公路监理中的质量控制策略 (刘志芳)
- 293 装配式建筑构件生产成本控制问题与解决措施 (许星)
- 295 对水利水电工程施工安全管理的探讨 (周菊英)
- 298 浅析小型水电站机械设备的运行管理 (张智远)
- 300 对海外企业与国内企业HSE管理的差异性分析 (刘国强)
- 303 试述电力建设土建工程项目施工管理要点 (李本成, 王佩琦, 牛平章, 原贝贝)
- 305 天津滨海公园绿化工程施工与管理的探讨 (宋超波)

INFORMATION

- 07 "The standard of assembly decoration will be put into effect in Beijing from October 1st." Etc. 8

FORUM

- 10 Study on Continuous Gradation Equation of Coarse-grained Soil Particles
- 13 Discussion on a Rapid Construction System of The Exterior Wall of The Basement
- 16 Geochemical Characteristics and Prospecting Direction of Pb-Zn Deposit

Architectural and Structural Design

- 19 Design of Natural Ventilation and External Windows for High-Rise Residential Buildings in Beijing (LIU Yin-yan, ZHANG Shi-xing)
- 22 Thinking and Practice of the Integration Method of Industry and City for Urban Steel Plant (FAN Xin-ku)
- 26 A Study on the Quality Appraisal and Reinforcement and Reconstruction of Protective Historical Building (ZHANG Yu, XING Rui, ZHENG Lan-hua)
- 29 Mechanical Analysis Method Research of Electrical Supports in Reactor Building (LIU Zheng-hu)
- 32 Discussion on the Significance of Deepening Design to Building Engineering (LIU Xue-wen)
- 34 Study on Seismic Design Method of Rocking Infilled Wall-Frame Structure (YANG Shu-biao, WANG Hao, JIA Jian-hui, FENG Meng-chao)
- 38 Analysis of Common Problems in Building Structure Design (ZHANG Bo)
- 40 Study on the Structural Scheme of Large Span Roof of Chengdu Wanda City Indoor Entertainment Snow Park (SHI Lu-ye, BU Long-gui)

Engineering Design of the Ground

- 43 The Dynamic Response and Height Design of Low Embankment in Soft Soil Reinforcement Area (WANG Wei-qing)
- 46 Stress Analysis and Numerical Calculation Research of Asphalt Structural Layer Based on Interlayer Contact State Additional (LV Hui)
- 49 Analysis of Geotechnical Engineering Problems in Foundation Pit of Changzhou Rail Transit Line 2 (WU Jing-shu)
- 52 Construction of Soft Foundation Pavement in Transition Section of Road and Bridge (ZHANG Bing-qing, ZHU De-qing)
- 54 Discussion on Structure Design of Supporting and Its Construction Technology of Metro Deep Foundation Pit (ZHANG Wei)
- 56 The Influence of Concrete Strength on Punching Shear Capacity of the Spread Footings Foundation of Special Columns (XU Xiu-feng, KONG Zi-ang)
- 59 Study on the Spatial Shape and Mechanical Parameters of Multi-Layer Slip Surface of Bedding Slope in Guizhou Guanling Formation (ZOU Yang, FEI Zheng-yao)

- 61 Discussion on Static Load Test Method of Anchor Pile Cross Beam (SHEN Yuan-yuan, GUO Ye, QIN Yong-zhong)
- 64 Discussion on Geotechnical Engineering Investigation Method and Its Application of Filling Soil and Filling Slope in Backfill Area of Residential Building (ZHANG Qing-yun, DENG Chun-yan)
- 67 Analysis of the Problems in Foundation Design and Geotechnical Investigation and the Reasonable Response (LI Xiu-juan)
- 70 Construction Technology of Cement Stabilized Macadam Pavement Base (YAN Zhi-jun)
- 72 Engineering Application of Complex Liquefied Foundation Treatment (HE Han-yu, WANG Rui-jie, ZHANG Xin-dong, MA Yan-feng)
- 75 Steps of the Undisturbed Soil Sample Preparation for the Soil Test of the Water Conservancy Engineering and the Attention Problems (ZHANG Ying-bo)
- 77 A Brief Discussion on the Problems of Geotechnical Dredging Engineering in Fangcheng Port (LU Chao-jian, JIANG Gui)
- 82 Discussion on the Forming Causes and Treatment Measures of Collapsible Loess (YUAN Wen-jin)
- 84 Analysis and Suggestion on the Calculation of Punching Shear Capacity and Shear Capacity of Independent Column Foundation (ZHANG Jing-jing, ZHANG Yi-fan)
- 88 Discussion on the Protection and Reinforcement Measures of the Slope of the Subgrade of Municipal Road (WANG Qiang)
- 90 Surveying and Mapping Method of Special Terrain in Surveying and Mapping Engineering (YANG Fan)

Rublic Utilities Design

- 93 Key Points Analysis of 10kV Distribution Network Planning and Design (LIU Cai-jin)
- 95 Summary on the Design of Water Supply Consolidation and Promotion Project for Urban and Rural Areas in Mountainous Areas of Guizhou Province (SHEN Chun-shan, WANG Bai-chun, LI Can-kun)

Municipal Traffic Water Resources Engineering Design

- 98 Dynamic Design and Construction of the Buried Excavated Tunnels of Metro Underneath the Drainage Pipeline (SHAO Wei)
- 101 Structure Behavior Analysis and Loading Test of Long-Span High-Pylon Semi-Floating System Cable-Stayed Bridge (LIU Fang-fang)
- 105 Discussion on the Promotion Measures of the Design of the Field Area in the Expressway Service Area (XIU Xue-hua, ZHANG Fang-qing)
- 108 The Key Points of the Design of the Underwater Tunnel with the Mine Method (LI Hao)
- 110 Study on the Water Drainage Design of Standardized Station (MENG Yao-lin, ZHAO Yu-hui, GAO Hai-yun, ZHANG Ya-ru)
- 112 The Control Points of Pouring Asphalt Concrete Construction of Special Deck Pavement (CHEN Jun)
- 115 Application and Design Essentials of Hybrid Girder in Chinese Bridges (MI Xiao-song)
- 118 Structural Design and Analysis of a New Type of Tunnel Trolley with Intelligent Waterproof Slab and Steel Deck (ZHANG Kai)
- 120 Design and Implementation of Belt Conveyor Control System Based on PLC Redundancy Technology (CHEN Qian-yun, DENG Ke-yong, LI Zhi-jun)
- 125 Analysis of Highway Subgrade Protection Design and Reinforcement Technical Measures (HUANG Chun-xiao)
- 127 Analysis of Structural Strength Evaluation Method for Old Cement Pavement of Expressway (LONG Ji-wei)
- 130 Analysis of the Construction Technique for Soft Soil Subgrade in Highway Project (CHENG Xiao)
- 132 Discussion on the Design of Culvert of Expressway in Mountain Area (JIA Yun-bao)
- 135 Analysis on the Construction Technology of Thin Wall Hollow High Pier of Railway Bridge (WU Xiao-lei)
- 137 The Installation and Maintenance Technology of Electromechanical Equipment in Large-Scale Water Conservancy Pumping Station (REN Zheng-fu)
- 140 Causes and Prevention Measures of Cracks in Highway Asphalt Pavement (HUANG Ning)

142 Analysis of the Key Points of Bridges Seismic Design (FU Wei)

Manufacture Engineering Design

145 Research the Rail Gnawing Problem of the Travelling Mechanism for the Large Shipbuilding Gantry Crane (LIU Tao-wei, ZHAI Hu-dao)

148 Analysis and Reform of Oil Splashing of the Water Guide Bearing for the High Water Head and High Rated Speed Pelton Turbine (ZHANG Xia-bo, WANG Hua)

Environment Engineering Design

150 Optimization Design Research of the AO Process Sewage Treatment Reconstruction and Expansion Project (ZHANG Shi-xiang, LI Yu-feng)

155 Review on the Technology Comparison and Selection of Hazardous Waste Incinerators in Petrochemical Plants (JIANG Qi-zhi)

158 Thoughts on Harmless Treatment and Resource Utilization of Domestic Waste in Qingdao City (ZANG Chuan-long, REN Zun, XU Min)

Intelligence and Information Technology

161 Application and Innovation of Thermal Automation Technology in Thermal Power Generation (TAN Wei)

164 Application Research of BIM Technology in the Construction of Electrical Vehicle Charging Station (YANG Qian)

167 The Application of BIM Technology in Green Building Design (ZHAO Chan-yuan)

169 Exploration of Electromechanical Intelligent Innovation Design of Qujiang Yungu Project (LI Wen-xing)

Construction Technology

172 Characteristics and Application Research of Tunnel Construction with Mechanization Drilling and Blasting Method (WANG Xiao-xian, GUO Jian, YUAN Chao-lin, WANG Nan)

175 Construction Technology of Vacuum Assisted One-Time Injection of Concrete in the Jacking Pipe (XU You-gang)

178 Foundation Pit Support, Dewatering and Waterproofing Technology for Foreign Underground Road and Culvert Projects (WANG Han-guang)

181 Analysis and Improvement Measures of Support Diseases for Small and Medium Span Bridges (WANG Ru-han)

184 The Application of Cementitious Permeable Crystalline Waterproofing Materials in a Project Oversea (ZHANG Zhan-xiang, LAN Li-jiang)

187 The Application and Analysis of the Construction Technology of Integral Synchronized Jacking of Large Volume Steel Space Frame (MA Bin-bin)

190 Discussion on Construction and Inspection Problems in Highway Bridge Pile Foundation (XIAO Li-bao, GAO Jing-bo)

192 Research on the Length Value of Welding Seam of Lining Board Installation of Weldless Beam-Column Joints (LI Ran, LI Jun, WANG Cong)

196 Rock Blasting Control Technology of Railway Adjacent to Existing Reservoir in Northwest Alpine Area (CUI Yong-xu)

198 Study on Construction and Treatment Technology of Tunnel in Karst Water-Rich Stratum (YANG Ping)

201 Research on the Application and Innovation of Construction Technology of Building Construction (WU Pei-xiao)

203 Study on Construction Technology of Vertical Greening Plant Growth Units on High and Steep Rock Slopes (MENG Ya-wu)

206 Causes and Prevention Measures of Asphalt Pavement Cracks in Road and Bridge Engineering (ZHU De-qing)

208 Experience in the Construction of a Highway Tunnel Based on the Principle of New Austrian Method (LING Zhen-guo)

211 Construction Organization and Key Technologies of Urban Complex in Complex Environment (CAO Qing-wen)

213 Study on Construction Technology of Tunnel Hydraulic Blasting (TIAN Xin)

216 Discussion on Key Technology of Highway Asphalt Pavement Construction (HOU Li-bo)

218 Underpinning Design and Construction of the Wall in Transforming Brick Concrete Structure into Bottom Frame Structure (WANG Yan-wu, ZHANG Zhi-yong)

221 Discussion on the Construction Technical Experience of Bridge Substructure (YAN Peng-fei, ZHANG Hai-jiao)

223 Key Technology of Pipe Jacking Construction in Municipal Engineering (WANG Rong-rong, WANG Zhen-hong)

226 Analysis and Treatment Measures of Common Diseases of Highway Asphalt Pavement (HUANG Ling)

228 Research on Key Technology of Long-Span Continuous Bridge Construction (HU Wen-tang)

231 Highway Bridge Construction Management, Maintenance and Reinforcement Maintenance (JIAO Ping-jun)

233 Characteristics and Prevention Measures of Highway Slope Geological Disasters of YangChang Highway Jiande Section (SHEN Jie, WU Chun-hui, HE Xu-feng)

236 Construction Technology of Repairing Concrete Damage of Bridge Maurer Seam with Epoxy Resin Concrete (GUO Shu-ming)

238 The Application of Caisson Construction Technology in Construction of Water Supply and Drainage Structures (HUA Zong-li)

241 Discussion on the Application of Building Construction Technology in the Construction of High-Rise Building Project (GAO Qiang)

243 Construction Technique of Prefabricated T-Beam in Two-Lane Tunnel (ZHANG Jia-yu)

246 Analysis of Bridge Construction Technology and Causes of Cracks (LI Tie-gang)

248 Research on Quality Supervision and Management of Railway Construction Project (HE Wei)

Project Management

251 Analysis on the Operation Guarantee of Ship and Machines of Overseas Construction Projects (JIANG Jia-wei)

254 Management and Cost Control of Reconstruction and Extension Project of Community Health Service Centers (WANG Guo-quan, ZHANG Wen-li, ZHANG Zhi-tao)

257 Enlightenment from Life Cycle Management of Residential Buildings in Japan (WU De-hua, WU Hao)

262 Analysis of the Coordination Role of the Owner in the Construction of Highway Construction (LI Jin)

265 Measures and Practice of Improving the Design and Management of Capital Construction Projects of Scientific Research Units (HE Peng, YE Xu-ming, BU Chun-lei, YANG Zhi-sheng)

268 Empirical Analysis on the Support Form of Foundation Pit and the Type Selection of Foundation Pit Support Structure (YIN Na)

270 Discussion on Construction Quality Control of High Performance Concrete (WEI Gang, XIE Qian-jun)

273 Research on Sediment Test Technology Adapted to Hydrological System Reform (JIANG Mao-cheng)

275 Discussion on the Cost Control Measures of Highway Design Under PPP Model (DAI Hong-feng)

278 Discussion on Maintenance and Management Measures of Highway Asphalt Pavement (YAN Dong)

280 Discussion on Subcontracting Management of Overseas Projects (LI Yi-chao)

283 Discussion and Practice on Construction Management of Prefabricated Beams in Highway Bridge Engineering (LI Ping)

285 Discussion on the Measures for Construction Enterprises to Confirm Bidding Quotation Reasonably and Increase Profit Space (ZHOU Zhan-hong)

288 Construction Quality Control Analysis of Building Pile Foundation Engineering (JIA Chong)

290 Discussion on the Quality Control Strategy of Highway Supervision (LIU Zhi-fang)

293 Problems and Measures of Production Cost Control of Assembly Building Components (XU Xing)

295 Discussion on Construction Safety Management of Water Conservancy and Hydropower Project (ZHOU Ju-ying)

298 Analysis on the Operation and Management of Mechanical Equipment in Small Hydropower Stations (ZHANG Zhi-yuan)

300 Difference Analysis of HSE Management Between Overseas and Domestic Enterprises (LIU Guo-qiang)

303 Construction Management Points of Civil Engineering Projects of Electric Power Construction (LI Ben-cheng, WANG Pei-qi, NIU Ping-zhang, YUAN Bei-bei)

305 Discussion on the Construction and Management of Tianjin Binhai Park Greening Project (SONG Chao-bo)



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

标准刊号 ISSN1007-9467 广告许可证号：京海工商广字第 8214 号 邮发代号：82-847 定价：20.00 元 / 期 480.00 元 / 年
 万方数据 CN11-3914/TU