



工程建设与设计

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 2017 年第 02 月 总第 353 期

祝全国勘察设计行业工作者

2017

恭贺新禧

鸡年吉祥

农历丁酉年

ISSN 1007-9467 02 >



9 771007 946103

动态资讯

- 03 “《省级空间规划试点方案》公布”等信息
16则

论坛

- 08 谈公路路线设计中应注意的相关问题及探讨
10 上软下硬地层地下连续墙施工技术
12 公路路桥施工中有关注土地基处理的思考

信息化

- 14 BIM2.0, 互联、协同、集成

建筑与结构设计

- 17 某超限高层建筑转换梁及其支撑柱设计(王宇, 祖青, 束天明)
20 南京市社区养老服务设施现状调查与设计改进策略(宋利红, 丁炜)
23 谈轨道交通上盖城市地下空间规划设计——以惠州市荔浦清风公园地下停车场设计为例(张旗)
27 建筑基础设计中考虑风和地震荷载作用的设计方法探讨(冯川川)
31 中小城市绿色建筑推进及设计探析(崔卫波)
33 梁腹板开洞梁柱节点的非线性分析(左咏梅, 邵珠腾, 孟庆轩)
36 工字型钢梁连接节点的开发与应用研究(万朝梅)
38 纤维增强FRP钢筋混凝土组合梁结构的抗弯性能研究(彭慈德, 张丽娜, 舒婷, 胡逸杰, 邱立冬)
42 大型综合性商业建筑的消防设计研究(高强强)
45 大型液压机泵站工程设计分析(崔双斌, 邵业见)
48 谈历史街区的保护与更新——以南京大油坊巷历史风貌区保护与更新方案为例(丁思亮, 张伟郁*, 刘旭)
51 基于公共空间质量提升的人民法庭建筑设计改进策略(李欣, 丁炜)
54 绿色办公建筑能耗及节能措施分析(何毅刚)

基础工程设计

- 58 基于SAP2000 API的大型设备基础精度分析方法(周金政, 乌一东)
62 基于AquiferTest和GMS的水文地质参数求解及数值模拟(李任政, 谢世红, 董佩瑶)
65 振动沉管CFG桩在海相软土地基中的应用(吴涨器, 郑彬)
68 沿海水下基桩混凝土的配方设计及耐腐蚀性研究(吴鹏)
72 郑州地铁车辆段供暖热源及输配系统设计的几点思考(封宗兴, 许淑惠)
76 油气回收装置在液体化工码头工程中的应用(熊伟, 汪洋)

公用工程设计

- 79 轨道交通车站通风空调系统施工研究(张辉)
84 港口变电所微机综合保护装置整定计算的探讨(李恒, 熊伟)
87 高精度磁法测量在喀喇沁旗四十家子地段铀矿勘查中的应用研究(任伟龙, 宁君, 佟术敏, 翟亮亮)
90 高速公路服务区火灾风险评定分析(成仲利)
93 LNG储罐消防冷却水设计(李连成, 李雪纯)

市政·交通·水利工程设计

- 96 桩板结构技术在高铁施工中的实践探究(杨斌)
98 天津西站地铁6号线活塞风道(盾构井)基坑降水设计(李辉)
101 城市道路结构的横断面细节设计(刘长泉)
104 高速公路旧桥改扩建保通及交通组织研究(刘立博)
107 探讨桥梁检测在管理与养护中的重要性(路飞)
110 水利设计工程中生态理念的应用(邱翔)
112 高速公路预制梁场的建设规划和施工研究(王强)
115 小半径平曲线段内大跨径连续刚构桥梁的设计计算(马荣明, 何艳)
117 火力发电厂应急预案可视化及模拟推演系统开发研究(杨迎, 张体强)
120 斜拉索黏性剪切型阻尼器在永川长江大桥的应用(杨天伟, 姜金星)

制造工程设计

- 123 高效横管初冷器脱萘工艺的操作方法(王笃全)
126 中大型挖掘机下料车间工艺设计(张勇, 刘伟召)

环境工程设计

- 130 城市规划建设中的环境保护探讨(刘猛)

智能与信息化

- 132 宽带无线移动通信运营发展路径研究(甄仲强)

工程施工技术

- 135 既有线下顶进框架桥线路加固的施工技术(李志忠)
138 某宾馆加固改造设计(柴园园, 郭水平, 杨培生)
140 地铁明挖车站施工技术要点研究(张元林)
143 锚具连接器在分期工程中的研究及应用(汪永平)
146 V型滤池滤板与滤头的安装技术(曹彦伟)
149 铁路隧道防水施工技术及应用(董海成)
151 双排钢管桩围堰施工设计——以太湖西山岛出入通道1号桥为例(李芸, 袁海东)
155 深谈钢管注浆加固法在地铁区间建筑物加固中的应用(王养社)
158 昆明西站既有交叉渡线整组纵移工法(张勇)
161 建筑暖通安装工程施工问题及其解决措施(马骏)
163 公路桥梁常见病害及施工处置方法(孟占领)
166 405X工程装架安装项目施工技术(揭克梅)
170 城市轻轨高精度大跨弯梁预应力施工技术及应用(范松松)
173 探析深基坑SMW工法桩围护施工监理质量安全控制(沈华枢, 全美英)
175 深基坑钢筋混凝土支撑拆除技术应用(徐云飞, 邵龙)
178 房屋建筑节能工程施工技术探讨(李赵)
180 拉森钢板桩在水下承台施工中的应用分析(王志佐)
182 道路桥梁混凝土施工技术的应用(刘一鸣)

工程项目管理

- 185 地铁浅埋暗挖工程风险管理探讨(李严)
187 新常态下青建集团股份公司发展战略研究(桑培东, 刘晓丽, 李永光)
191 影响路桥施工质量的因素及质量控制措施(张莉娟)
193 青岛蓝色硅谷核心区基础设施区域配套项目EPC总承包的优势(王兴毅)
197 建筑工程质量问题的根源及其对策(杨春行)
200 高速公路桥梁施工安全评价及对策(涂俊)
202 浅谈质量控制对监理企业发展的重要性(曹兵)
204 高速公路服务区规划建设与投资成本控制策略探析(杨苏, 贾栋扬)
95 投稿须知





INFORMATION

- 03 The Pilot Program of Space Planning at Provincial Level was Published "Etc.16

FORUM

- 08 Introduction to Relevant Problems that Should Be Paid Attention in The Design of Highway Route and Discussed in This Paper
- 10 The Construction Technology of Underground Continuous Wall of Soft and Hard Formation
- 12 Regarding the Handling of Soft Soil Foundation in Highway and Bridge Construction

INFORMATIONIZATION

- 14 BIM2.0, Interconnection, Coordination, Integration

Architectural and Structural Design

- 17 Design of Transfer Beams and Support Columns for an Ultra-high Rise Building (WANG Yu, ZU Qing, SHU Tian-ming)
- 20 The Actuality Investigation and Design Improvement Strategy on Community-based Aging Service Facilities of Nanjing (SONG Li-hong, DING Wei)
- 23 The Discussion on the Design of Urban Underground Space Planning of the Urban Rail Transit Facilities (ZHANG Qi)
- 27 Discussion on Design Method of the Role of Wind and Earthquake Loads in the Design of Building Foundation (FENG Chuan-chuan)
- 31 The Promotion and Design Analysis of Green Architecture in Small and Medium-sized Cities (CUI Wei-bo)
- 33 The Nonlinear Analysis of Beam-column Connection with Circular Openings on Beam Webs (ZUO Yong-mei, SHAO Zhu-teng, MENG Qing-xuan)
- 36 The Development and Application of H Steel Beam Connection Nodes (WAN Chao-mei)
- 38 Research on Flexural Behavior of FRP Bars Concrete Composite Beams (PENG Ci-de, ZHANG Li-na, SHU Ting, HU Yi-jie, QIU Li-dong)
- 42 Research on Fire Protection Design of Large Scale Comprehensive Commercial Building (GAO Qiang-qiang)
- 45 Large Hydraulic Machine Pumping Station Project Design Analysis (CUI Shuang-bin, Gao Ye-jian)
- 48 Historical District Preservation and Renovation — Dayoufang Historical District, Nanjing (DING Si-liang, ZHANG Wei-yu, LIUXU)
- 51 The Design Improvement Strategies on the Quality Improvement of Public Space of People's Court (LI Xin, DING Wei)
- 54 Analysis of Energy Consumption and Energy Saving Measures of Green Office Building (HE Yi-gang)

Engineering Design of the Ground

- 58 Precision Analysis Method for the Foundation of Big Machine Based on SAP2000 API (ZHOU Jin-zheng, WU Yi-dong)
- 62 Hydrogeological Parameters Calculation and Numerical Simulation Based on AquiferTest and GMS Software (LI Ren-zheng, XIE Shi-hong, DONG Pei-jin)
- 65 Application of Vibration Sinking CFG Pile in the Area Marine Soft Soil Foundation (WU Zhang-qi, ZHENG Bin)
- 68 Study on the Corrosion Resistance and Formulation Design of Coastal Underwater Concrete Pile (WU Peng)
- 72 Some Thoughts on Design of Heating Source and Transmission and Distribution System in Zhengzhou Metro Depot (FENG Zong-xing, XU Shu-hui)
- 76 Design and Application of Oil and Gas Recovery Equipment in Liquid Chemical Terminal Engineering (XIONG Wei, WANG Yang)

Public Utilities Design

- 79 Rail Transit Station Ventilation Air Conditioning System Construction Research (ZHANG Hui)
- 84 The Study of Integrated Protection Device's Setting Calculation of Terminal Substation (LI Heng, XIONG W ei)
- 87 High Precision Magnetic Survey is Applied in Uranium Exploration in Sishijiaz Area in Kalaqin Banner (REN Wei-long, NING Jun, TONG Shu-min, ZHAI Liang-liang)
- 90 Analysis of Fire Risk Assessment of Expressway Service Area (CHENG Zhong-li)
- 93 Characteristic for Fire Fighting Cooling Water System Designing of LNG Storage Tank (LI Lian-cheng, LI Xue-chun)

Municipal · Traffic · Water Resources · Engineering Design

- 96 The Practice of Pile Plank Structure Technology in High Speed Railway Construction (YANG Bin)
- 98 Foundation Pit of the Piston Wind Tunnel (Shield Well) Design of the Tianjin West Railway Station Metro Line 6 Dewatering (LI Hui)
- 101 The Detailed Section Design of Urban Road (LIU Chang-quan)
- 104 Research on Ensuring Smooth Traffic and Traffic Organization for Existing Highway Bridge Reconstruction and Extension (LIU Li-bo)
- 107 Discussion on the Importance of Inspection for Bridge Maintenance and Management (LU Fei)
- 112 Study on the Construction Planning and Construction of the Precast Beam Field of Expressway (WANG Qiang)
- 110 Application of Ecological Idea in Water Conservancy Design Project (QIU Xiang)
- 115 Design and Calculation of Large Span Continuous Rigid Frame Bridge with Small Radius Flat Curve Segment (MA Rong-ming, HE Yan)
- 117 Study on Emergency Plans Visualization and Simulation Deduction of Power Plant (YANG Ying, ZHANG Ti-qiang)
- 120 The Application of Viscous Shearing Damper on Yangtze River Bridge in Yongchuan (YANG Tian-wei, JIANG Jin-xing)

Manufacture Engineering Design

- 123 Naphthalene Removal Operation of High-efficiency Cross Tube Primary Cooler (WANG Du-quan)
- 126 Blanking Workshop Process Design of Medium and Large Excavators (ZHANG Yong, LIU Wei-zhao)

Environment Engineering Design

- 130 Urban Planning and Construction Environmental Protection (LIU Meng)

Intelligence and Information Technology

- 132 Broadband Wireless Mobile Communication Operation Development Path (ZHEN Zhong-qiang)

Construction Technology

- 135 The Construction Technology of Jacking Frame Bridge Reinforcement under the Existing Line (LI Zhi-zhong)
- 138 Reinforcement and Reconstruction Design of a Hotel (CHAI Yuan-yuan, GUO Shui-ping, YANG Pei-sheng)
- 140 Research on Construction Technology of Underground Open Cut Station (ZHANG Yuan-lin)
- 143 Research and Application of Anchorage Connector in Staging Engineering (WANG Yong-ping)
- 146 Installation Technology of V type Filter Plate and Filter Head (CAO Yan-wei)
- 149 Waterproof Construction Technology of Railway Tunnel and Its Application (DONG Hai-cheng)
- 151 Construction Design of Double Row Steel Pipe Pile Cofferdam — taking Taihu lake Xishan Island No. 1 Bridge as an Example (LI Yun, YUAN Hai-dong)
- 155 On the Sleeve Valve Pipe Grouting Reinforcement Method Selection and Application of Building Reinforcement in Metro Area (WANG Yang-she)
- 158 Kunming West Railway Station Cross Line Crossing the Whole Set of Longitudinal Shift Method (ZHANG Yong)
- 161 Problems and Solutions of Building HVAC Installation Engineering Construction (MA Jun)
- 163 Common Diseases and Related Construction Measurements for Highway Bridges (MENG Zhan-ling)
- 166 405X Engineering Rack Installation Project Construction Technology (JIE Ke-mei)
- 170 Prestressed Construction Technology and Application of High Precision and Large Span Curved Beam of Urban Light Rail (FAN Song-song)
- 173 Analysis of Deep Foundation Pit SMW Retaining Pile Construction Supervision of Quality and Safety Control (SHEN Hua-shu, QUAN Mei-ying)
- 175 Deep Foundation Pit Reinforced Concrete Support Demolition Technology Application (XU Yun-fei, SHAO Long)
- 178 Energy-saving Construction Technology of Housing Construction Project (LI Zhao)
- 180 Analysis of Larsen Steel Sheet Pile in the Application of Underwater Construction of Pile Caps (WANG Zhi-zuo)
- 182 The Application of Road and Bridge Concrete Construction Technology (LIU Yi-ming)

Project Management

- 185 Risk Management of Shallow Underground Excavation Engineering (LI Yan)
- 187 Research on Development Strategy of CNQC Group under the New Normal (SANG Pei-dong, LIU Xiao-li, LI Yong-guang)
- 191 On the Factors Affecting the Quality of Construction in Luqiao and Quality Control Measures (ZHANG Li-juan)
- 193 EPC for Overall Project-contracting Advantage of Qingdao Blue Silicon Valley Core Area Infrastructure Supporting Regional Project (WANG Xing-jian)
- 197 On the Root Causes of Construction Engineering Quality Problems and its Countermeasures (YANG Chun-hang)
- 200 The Highway Bridge Construction Safety Assessment and Countermeasures (TU Jun)
- 202 Discuss the Importance of Quality Control for Supervision Enterprise Development (CAO Bing)
- 204 On the Planning and Construction of Expressway Service Area and the Investment Cost Control Strategy (YANG Su, JIA Li-yang)



INTELLI GENT BUILD ING

立足智能建筑 助力智慧城市



网站二维码



微信二维码



微博二维码

住房和城乡建设部主管 中国勘察设计协会主办 国内统一刊号: CN 10-1392/TU

邮发代号: 82-729 全年定价240元/12期

《智能建筑与智慧城市》(原智能建筑与城市信息)主要涵盖智能建筑、居住小区的楼宇自控、系统集成、安全防范、电子会议系统、火灾自动报警、综合布线、会议系统、数字控制、智能照明、机房工程、防雷接地和计算机应用以及城市信息化建设等相关专业技术进行介绍与交流,展开分析与探讨,为广大设计院、系统集成商、建筑工程公司、房地产开发商、物业管理公司、产品生产厂商等相关单位提供各类参考资料,是智能建筑专业特色刊物及实用技术手册。

编辑部电话: 010-68474770 市场部电话: 010-68470457 发行部电话: 010-68728505

地址: 北京市海淀区半壁街南路8号汇景阁613室 邮编: 100089 传真: 010-68008610 E-mail: 435223173@qq.com