



工程建设与设计

：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 2016年 第10月 总第345期



G20峰会主会场“廿国共宇同坐轩”

北京市建筑设计研究院有限公司
万方数据

ISSN 1007-9467



9 771007 946103

10 >

卷首

05 惊艳G20的中国勘察设计

动态资讯

06 “住建部公布《关于建设工程企业资质审查意见的公示》”等信息12则

封面工程

08 BIAD设计尽显中国本色

论坛

11 “马路拉链”终结者

13 创新型企业文化构筑企业核心竞争力

15 探索建筑工程施工技术管理水平的提升

17 预应力混凝土管桩边桩整体偏移原因分析、预防及处理措施

建筑与结构设计

- 19 体外预应力技术在“拔柱”加固中的应用探讨(王啸)
24 校园文化的建筑空间营造——北京市育英中学改扩建工程项目建筑设计(闫中良,王锡英)
27 基于Inventor分析的多层钢平台设计(钱路燕)
30 世博发展集团大厦结构设计与创新(李云燕,王瑞栋,杨晶)
33 大连地铁双层立体车库咽喉区结构设计(朱运川)
36 钢筋混凝土框架顶部新增钢结构的抗震分析(梁边)
38 浅议人性化设计的卫浴空间(戚凯锋,戚玉丽)
41 建筑外墙渗漏疑难问题的解决途径(张守斌)
43 发电厂建筑物防雷措施的优化(高厚良)
46 中小学框架教学楼抗震设防标准提高对钢筋用量的影响分析(王燕荣,负慧星,刘中华,王春玲)

基础工程设计

- 49 某沿海地区工厂地基处理设计方案探讨(王厚星,陈德勇)
51 二元复合地基的设计及应用(王磊)
53 谈多尺度地质结构下边坡稳定方法(包晓梅)
57 EXCEL在混凝土灌注桩钢筋含量计算中的应用(王金朝,李军,付文荣)

公用工程设计

- 59 谈某超高层建筑自动喷水灭火系统设计(何智艳,康凯)
63 地铁站台屏蔽门实时监控系统的开发实践(杨敏)
68 办公建筑中吊顶辐射空调系统冬季工况测试研究(黄涛,袁东立,王永红,李娜,赵羽,尚武强)
70 低压环网供电方式在工厂供电中的节能性分析(罗婷,石璐,惠杰)

市政·交通·水利工程设计

- 72 浅析高炉项目压力管道设计(曾凡峰)
75 郑州地铁CRD法浅埋暗挖通道可行性研究(张文龙)
78 谈张石高速排水性沥青路面的材料组成和性能研究(刘东茹)
81 连云港市区饮用水输水工程缓冲池工艺设计(周洋洋,王波)
83 表面探地雷达反射技术对路面结构损坏的间接诊断(郭红涛)
87 分析公路路基施工技术及其压实质量的控制措施(司春朝)
89 城市轨道交通轨道工程施工测控技术的探讨(王曼)
93 连续梁桥的成桥荷载试验(刘训忠,刘婧)
96 海南万宁某旅游公路滑坡治理方案研究(谢斌)
100 谈跨海大桥混凝土结构寿命预测模型(刘慧军)
103 城市道路积水成因分析及解决对策(费宇婷,沙峥峥,薛嘉兵)
107 预应力碳纤维板在T梁桥加固中的应用与试验(冯春恒)
109 解析运行速度在高速公路线形设计中的应用(张忠文,杨振祥)
112 公路路线设计原则与注意要点对析(肖志俊,罗海红)
114 省道公路养护中预防性养护技术运用分析(周小兰)
116 全厚式公路基层施工技术探讨(毕朝燕)

环境工程设计

- 119 浅析遥感技术在水土保持监测工作中的应用(于文祥,唐伟霄,刘松涛)

智能与信息化

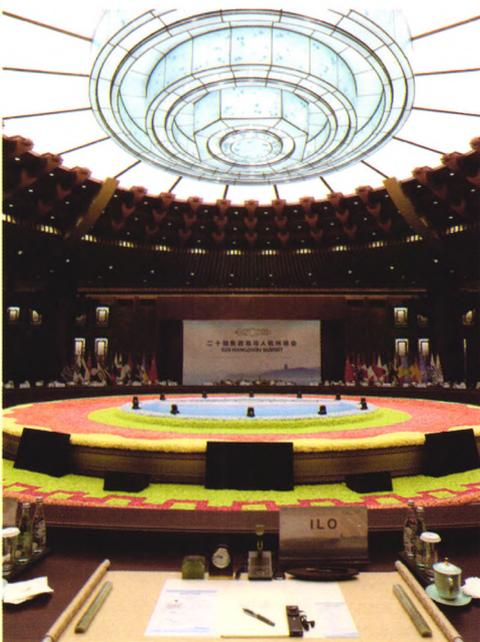
- 121 工程电子图档管理若干问题及未来应用展望(袁新宇)

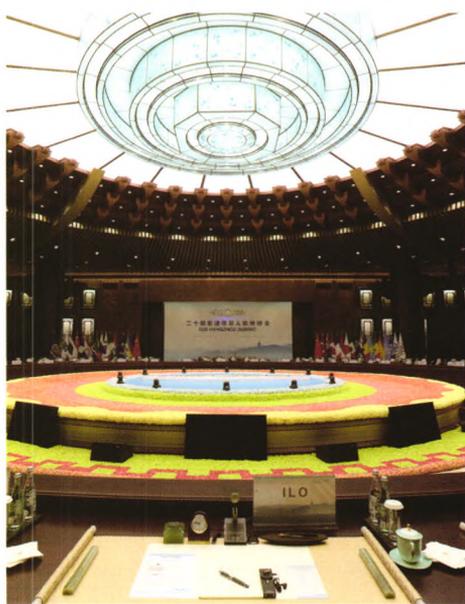
工程施工技术

- 124 钢筋混凝土桥梁耐久性设计方法(周浩,刘勇志)
126 灌缝施工技术在沥青路面养护中的应用(杨宇晓,刘丽泽)
129 郑州地铁浅埋暗挖施工风险措施研究(张文杰)
133 论山区高墩高塔大跨径桥梁施工技术的创新与应用(欧阳文)
136 混凝土拌合站关键技术展望(刘增辉,王海峰,成义勇,辛学礼)
140 工程爆破灾害及其安全控制措施应用(申威,逢焕东)
143 解析高速公路路堑高边坡施工质量控制(戈永发)
146 房屋建筑深基坑施工工艺及质量控制研究(陈建立)
148 建筑工程混凝土施工工艺及工程应用研究(杜彬)
151 新型铁路隧道防灾救援工程施工技术(王涛)
154 谈公路路面翻修用温拌沥青混合料的实验室评估(王伟)
157 谈厂拌水泥稳定碎石施工(梁建军)
160 DX挤扩桩施工技术(倪宝书)
165 连续梁整体顶升施工监测与数值模拟分析(马亮,王天鹏,李斌)
168 WSS注浆技术在城市地铁盾构施工中加固土体的应用(杜艳蛟)
171 盾构隧道侧穿高铁桥桩影响分析及控制措施(林森斌)
174 碗扣式满堂支架设计施工控制要点对析(严默非)
177 探讨跨度预应力混凝土桥梁的施工技术(刘洪泉)

工程项目管理

- 180 工业工程设计企业专利管理工作的思考与实践(瞿海钰)
183 筑路机械的施工安全管理分析(赵愷)
186 海外EPC电站项目投标风险因素与对策分析(张学佳)
189 沥青混凝土路面施工质量管理措施分析(刘浩然)
192 对代建制和BT模式结合建设水利工程的探讨(陈雷)
195 对散货码头受损后管理对策及修复方案的探讨(周志强,曹云,应志峰)
198 黄河水利工程实行项目法人责任制的分析与探讨(徐军,杜伟华)





FOREWORD

- 05 The Excellent Chinese Exploration and Design of G20 INFORMATION¹¹³ Engineering

INFORMATION

- 06 "113 Engineering Construction Standards and Revised Plans for Advice" Etc. 12

COVER PROJECT

- 08 The Design of BIAD is Full of Chinese Characteristics

FORUM

- 11 The Terminator of Construction Fissure on Road
- 13 The Innovative Enterprise Culture is Core Competitiveness of the Enterprise
- 15 Explore the construction method of construction project management level of ascension
- 17 Prestressed Concrete Pipe Pile and Pile Overall Migration Cause Analysis, Prevention and Treatment Measures

Architectural and Structural Design

- 19 Discussion of Utilizing External Pre-stressing Technique in Strengthening Existing Structures with Columns Removed (WANG Xiao)
- 24 Architectural Space Creating of Campus Culture
—The Architectural Design of Beijing Yuying Middle School Renovation and Expansion Project (YAN Zhong-liang, WANG Xi-ying)
- 27 Multi-layer Steelwork Analysis Design with Inventor Software (QIAN Lu-yan)
- 30 The Structural Design and Innovation of Expo Development Group Building (LI Yun-yan, WANG Rui-dong, YANG Jing)
- 33 Dalian Subway Double-layer Structure Design Three-dimensional Garage Throat Area (ZHU Yun-chuan)
- 36 Seismic Analysis of Reinforced Concrete Frame with Additional Steel Storeys (LIANG Bian)
- 38 Discussion on the Humanized Design of Bathroom Space (QI Kai-feng, QI Yu-li)
- 41 Solution of the Problem of Water Leakage Through Exterior Walls (ZHANG Shou-bin)
- 43 Optimization of Lightning Protection Measures for Power Plant (GONG Hou-liang)
- 46 Seismic Fortification Criterion Improve Impact on the Steel Amount of Primary and Secondary Frame Structure Teaching Buildings (WANG Yan-rong, YUN Hui-xing, LIU Zhong-hua, WANG Chun-ling)

Engineering Design of the Ground

- 49 Discussion on a Design Scheme of Foundation Treatment of a Coastal Area Factory Engineering (WANG Hou-xing, CHEN De-yong)
- 51 The Design and Application on Composite Foundation with Two Different Materials (WANG Lei)
- 53 Rock Bridge Slice Element Method in Slope Stability Analysis Based on Multiscale Geological Structure Mapping (BAO Xiao-mei)
- 57 The Application of EXCEL in Calculation of Reinforced Concrete Pile (WANG Jin-chao, LI Jun, FU Wen-rong)

Public Utilities Design

- 59 Design of Sprinkler Systems in a Super High Rise Building (HE Zhi-yan, KANG Kai)
- 63 Platform Screen Door Real-time Monitoring System Development Practices (YANG Min)
- 68 Experimental Research on Winter Performance of Radiant Ceiling Air-conditioning System in the Office Building (HUANG Tao, YUAN Dong-li, WANG Yong-hong, LI Na, ZHAO Yu, SHANG Wu-qiang)
- 70 Analysis of Energy-saving for Low Voltage Ring Network in Factory Power Supply (LUO Ting, SHI Lu, HUI Jie)

Municipal · Traffic · Water Resources · Engineering Design

- 72 Analysis on Design of Blast Furnace Project Pressure Piping (ZENG Fan-feng)
- 75 Feasibility Study on CRD Shallow Buried Tunnel in Zhengzhou Subway (ZHANG Wen-long)
- 78 Research on Material Composition and Performance of Zhangshi Highway Porous Asphalt Pavement (LIU Dong-ru)
- 81 The Process Design of Buffer Pool for Lianyungang Urban Water Delivery Project (ZHOU Yang-yang, WANG Bo)
- 83 Indirect Diagnosis of Pavement Structural Damages Using Surface GPR Reflection Techniques (GUO Hong-tao)
- 87 Analysis of Highway Subgrade Construction Technology and Roadbed Compaction Quality Control Measures (SI Chun-chao)
- 89 Comparative Analysis of Track Construction Measurement in the Urban Rail Transit (WANG Man)
- 93 Field Load Test of a Continuous Girder Bridge (LIU Xun-zhong, LIU Jing)
- 96 The Study on Treatment Scheme of Landslide in a Tourist Highway in Hainan Wannning (XIE Bin)
- 100 Research on Service Life Prediction Model of Concrete Structure of Sea-crossing Bridge (LIU Hui-jun)
- 103 Cause Analysis and Countermeasures of Urban road Waterlogging (FEI Yu-ting, SHA Zheng-zheng, XUE Jia-bing)
- 107 Application and Test for T Girder Bridge Strengthened by Prestressed Carbon Fiber Board (FENG Chun-heng)
- 109 Application of Analytic Operation Speed in Highway Alignment Design (ZHANG Zhong-wen, YANG Zhen-xiang)
- 112 Analysis of Principles and Attention Points of Highway Route Design (XIAO Zhi-jun; LUO Hai-hong)
- 114 Analysis of Preventive Maintenance Technology of Highway (ZHOU Xiao-lan)
- 116 Discussion on the Construction Technology of Full Thickness Highway Base (BI Zhao-yan)

Environment Engineering Design

- 119 Analysis of Remote Sensing Technology in the Application of Soil and Water Conservation Monitoring Work (YU Wen-xiang, TANG Wei-xiao, LIU Song-tao)

Intelligence and Information Technology

- 121 Some Problems and Future Application Prospect of Engineering Electronic Drawing and File Management (YUAN Xin-yu)

Construction Technology

- 124 Durability Design Method of Reinforced Concrete Bridge (ZHOU Hao, LIU Yong-zhi)
- 126 Application of Grouting Technology in Maintenance of Asphalt Pavement (YANG Yu-xiao, LIU Li-ze)
- 129 Precontrol Measures for the Risk Sources of the Shallow Buried Excavation Construction of Zhengzhou Subway (ZHANG Wen-jie)
- 133 Discussion on the Innovation and Application of the Construction Technology of High Pier and Long Span Bridge in Mountainous Area (OUYANG Wen)
- 136 The Key Technology of Concrete Mixing Station (LIU Zeng-hui, WANG Hai-feng, CHENG Yi-yong, XIN Xue-li)
- 140 Engineering Blasting Disaster and Application of Safety Control Measures (SHEN Wei, PANG Huan-dong)
- 143 Construction Quality Control Analysis of Cutting High Slope of Expressway (GE Yong-fa)
- 146 Building Deep Excavation Construction Technology and Quality Control Research (CHEN Jian - li)
- 148 Building Concrete Construction Technology and Engineering Application (DU Bin)
- 151 The Construction Technology of Disaster Prevention and Rescue for New-type Railway Tunnel (WANG Tao)
- 154 Laboratory Evaluation of WMA Mixture for Use in Highway Pavement Rehabilitation (WANG Wei)
- 157 Discussion on the Construction of Cement Stabilized Crushed Stone (LIANG Jian-jun)
- 160 Construction Technology of DX Impacted-expanded Pile (NI Bao-shu)
- 165 Monitoring and Numerical Simulation Analysis for Integral Jacking-up Construction of Continuous Beam (MA Liang, WANG Tian-peng, LI Bin)
- 168 Application of WSS Grouting Technology in the Reinforcement of Soil in the Construction of Urban Subway (DU Yi-jiao)
- 171 Analysis on Settlement of Bridge of High-speed Railway Caused by Side Crossing of Shield (LIN Sen-bin)
- 174 Essentials Analysis of the Design and Construction of Cuplok Full Support System (YAN Mo-fei)
- 177 Discussion on the Construction Technology of the Span Prestressed Concrete Bridge (LIU Hong-quan)

Project Management

- 180 Thinking and Practice of Industrial Engineering Design and Enterprise Patent Management (QU Hai-yu)
- 183 Road Construction Mechanical Analysis of the Construction Safety Management (ZHAO Jing)
- 186 Analysis on the Overseas Power Plant EPC Project Bidding Risk and Countermeasures (ZHANG Xue-jia)
- 189 Analysis of Construction Quality Management Measures for Asphalt Concrete Pavement (LIU Hao - ran)
- 192 Agent and BT Model Combined with the Construction of Water Conservancy Projects (CHEN Lei)
- 195 Research on Management Measures & Renovation of Damaged Bulk Terminal (ZHOU Zhi-qiang, CAO yun, YING Zhi-feng)
- 198 Analysis and Discussion on the Implementation of the Project Legal Person Responsibility System of Water Conservancy of the Yellow River (XU Jun, DU Wei-hua)



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