



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 中国中元国际工程公司 CN 11-3914/TU 2012年第5期 总第289期

“零距离”

——王素卿理事长与王澍的对话

走向国际的中国建筑设计

王澍建筑思想中的逆向思维

和谐共处方可大行其道

告别图纸 “次时代”



普利兹克奖·中国

万方数据

ISSN 1007-9467



05 >

9 771007 946103

5 卷首

普利兹克奖的“中国年”

6 动态资讯

8 特别关注

普利兹克奖·中国

普利兹克奖·渊源

普利兹克奖·辉煌

普利兹克奖·2012中国

普利兹克奖·大师汇

22 天强视点

并购, 为了企业的价值创造

24 律师说法

工程总承包合同的风险分析与防范 (二)

28 设计之友

留住城市的记忆

32 信息化

告别图纸“次时代”

33 ECUC观点

产品线: 撬动地产新经济

36 建筑霓虹

历史·匠心·武钢博物馆



封面供图: 清华大学建筑设计研究院

建筑结构设计

- 41 “L”形高层建筑的高位转换结构设计与分析 (沈玫, 黄鑫, 郑来娟)
- 45 测功房技改工程设计浅议 (卢娟, 王革)
- 49 浅议创伤急救中心的规划及建筑设计 (李慧琴)
- 52 金融企业办公建筑设计探索——北京金融街A5商业写字楼设计总结 (李波)
- 56 观台——谈天津港保税区广合大厦改扩建工程设计创作随感 (朱轶蕾)
- 60 棱柱形高层建筑幕墙在非高斯脉动风作用下的响应 (史建鑫, 吕令毅)
- 63 我国叉车企业缺乏自主创新能力的分析 (张敏, 王树春)
- 65 混凝土结构设计新规范相关问题探讨 (刘翠竹)
- 68 钢结构防火保护措施综述 (朱国珍)
- 72 基于区间方法的活荷载不利分布计算 (石骁)
- 76 量化单条铁水罐车停放线 (袁超, 颜辉)
- 79 高层建筑外墙外保温系统选型分析研究 (孙荣荣, 许志中)
- 83 Z形冷弯薄壁型钢檩条设计中的方向性 (黎永)
- 85 某原料场焙剂制备工程破碎筛分室动力分析 (刁现伟, 王北村, 王岩霖, 杨洁)
- 88 北京建工发展大厦绿色建筑设计的概述 (傅德辉, 刘庄民)
- 92 多层房屋结构优化探索 (于跃海)

公用工程设计

- 96 机场物流仓库的消防及给排水设计体会 (李薇)
- 99 历史街区公共空间的使用后调研与分析——以西安书院门步行街为例 (李保宁, 许传刚)
- 102 某能源中心继电保护定值计算 (郭占伟, 李德峰, 王加刚)
- 107 某钢结构企业浴室热水系统设计 (吴海林)
- 110 生态设计策略在市政规划中的应用——以西北地区某镇市政规划为例 (李慧)
- 114 医院检验科的空调设计 (孙苗)
- 117 不同垂直管形式地源热泵热水系统换热性能研究 (胡映宁, 熊理国, 刘渊)
- 121 内蒙某电厂锅炉除渣系统的设计选型分析 (乐培华)
- 124 中国联通大厦内区空调节能浅析 (刘庄民)
- 128 试析高层建筑防排烟系统的常见问题 (李仕龙)
- 131 城市电力设施布局规划—变电站选址定容 (文闪闪, 李丹)
- 135 基于低冲击开发技术下城市暴雨内涝灾害的控制 (何明磊)
- 138 山地住宅小区雨水利用系统的设计探索——以武夷山墅项目为例 (蓝晓丹, 姚希)

基础工程设计

- 140 大型热处理井式炉基坑结构有限元分析设计 (陈耀武, 李金果, 陆锋)
- 142 宿淮铁路涵洞地基处理设计 (夏明亮)
- 147 大型模锻压机基础及深基坑设计及施工 (余安胜, 孙志理, 许强, 戚绍芬, 邓峰)
- 151 持续降雨对滑坡的稳定性影响及治理措施研究 (王良艳, 王震)
- 154 谈高层建筑的深基坑支护方案及风险处置措施 (林育生)
- 157 大块式动力机器基础计算研究 (何劲操)

市政·交通·水利工程设计

- 161 地铁基坑开挖对临近隧道的影响及措施分析 (韩雪峰, 崔青玉)
- 164 城市轨道交通钢轨接头冻结方式的比选分析 (杜锦, 陈林, 张学华, 王进)
- 167 大曲隧道光面爆破技术研究 (王虎良, 武玉清)
- 170 高地震区双线圆端形桥墩计算研究 (孙志浩)

工程施工技术

- 173 浅析聚羧酸高效减水剂与水泥的适应性问题 (廖国胜, 潘会, 肖煌)
- 177 节能型玻璃幕墙的设计与施工 (王静, 曹雪松)
- 180 灌注桩后注浆技术应用研究 (邹坤)
- 182 临近地铁边深基坑开挖的施工技术 (陈志军)

工程项目管理

- 185 议决策设计阶段的造价管理 (武秀萍, 张晓玲)
- 188 市政工程施工索赔机会分析 (李君)
- 190 城市基础设施BT项目回购价格的组成及确定 (林赞, 王将军)
- 172 勘误



5 FOREWORD

The Chinese Year of Pritzker Prize

6 INFORMATION

8 SPECIAL FOCUS

Pritzker Prize · China

Pritzker Prize · Origin

Pritzker Prize · Glorious

Pritzker Prize · 2012 China

Pritzker Prize · Master Converge

22 TIAN QIANG VIEW

Merger, for Creating the Value of EnterPrises

24 LAWYERS ARGUMENT

Project Total Contract the Risk Analysis and Prevention (II)

28 FRIENDS OF DESIGN

Keep the Memory of The City

32 INFORMATIONIZE

Say Goodbye to the Drawings "Second Age"

33 ECUC VIEW

Product Line: Move Estate New Econo—my

36 BUILDING NEON

History · Originality · Wuhan Iron and Steel Corporation Museum

Architectural and Structural Design

- 41 Design and Analysis of L-type High-rise Structure with High Transfer Floor (SHEN Mei HUANG Xin,ZHENG Lei-juan)
- 45 Discussion on the Design of A Dynamometer Room Technical Improvement Project (LU Juan, WANG Ge)
- 49 Analysis of Trauma Center Master Plan and Architecture Design (XIN Hui-qin)
- 52 Design Exploration of the Office Building in Financial Enterprise
—Summary of Beijing Financial Street A5 Commercial Office Building Design (LI Bo)
- 56 Viewing Platform—The Creation of the Guang He Rebuilding Building Project in Tianjin Port Free Trade Zone (ZHU Yi-lei)
- 60 The Response of Non-Gaussian Wind Pressure on the Glass Curtain Wall of a Square High-Rise Building (SHI Jian-xin, LU Ling-yi)
- 63 Analysis and Research Based on the Status Quo of the Lack of independent Innovation Ability in Domestic Forklift Manufacturers (ZHANG Min, WANG Shu-chun)
- 65 Discussion on the Issues of Concrete Structures Design Related to the New Specification (LIU Cui-zhu)
- 68 A Survey of Fireproof-protecting Measures of Steel Structures (ZHU Guo-zhen)
- 72 The Calculation of Unfavorable Live Load Distribution Based on Interval Method (SHI Xiao)
- 76 Quantify the Presence of Single Iron Tank Parking Line (YUAN Chao,YAN Hui)
- 79 Analysis Research on High-rise Building Exterior Insulation System Selection (SUN Rong-rong ,XU Zhi-zhong)
- 83 Orientation of Z-section Cold-formed Thin-wall Steel Purlin (LI Yong)
- 85 Dynamic Analysis of Crushing and Screening House in a Stock Yard Flux Preparation Engineering (DIAO Xian-wei ,Wang Zhao-cun,WANG Yan-lu,YANG Jie)
- 88 An Introduction to the Green Building Design of Beijing Jianguo Development Plaza (FU De-hui , LIU Zhuang-min)
- 92 Study on the Multi-storey Housing Structure Optimization (YU Yue-hai)

Public Engineering Design

- 96 Some Experience in the Design of Fire Protection and Water Supply and Drainage for Airport Logistics Warehouse (LI Wei)
- 99 The Research of Public Space that After Use in Historical Block
—as Xi'an Academy Door Pedestrian Street an Example (LI Bao-ning, XU Chuan-gang)
- 102 The Relay Protection Calculation of an Energy Center (GUO Zhan-wei, LI De-feng, WANG Jia-gang)
- 107 A Steel Company Bathroom Hot Water System Design (WU Hai-lin)
- 110 The Application of Eco Designs Strategy in Municipal Services Program —The Municipal Services Programming of a Town in Northwest (LI Hui)
- 114 The HVAC System Design of Clinical Laboratory (SUN Miao)
- 117 Different Forms of Vertical Buried Tube Ground-source Heat Pump Hot Water System Characteristics (HU Ying-ning, XIONG Li-guo, LIU Yuan)
- 121 The Selection Analysis of Boiler Ash Removal System Design of a Power Plant in Inner-Mongolia (LE Pei-hua)
- 124 Inner Zone Air Conditioning Power Saving Analysis of the China Unicom Building (LIU Zhuang-min)
- 128 Analysis of Common Problems of Smoke Control System in High-rise Buildings (LI Shi-long)
- 131 City Electric Facilities Layout Planning—Substation Locating and Sizing (WEN Shan-shan, LI Dan)
- 135 Control of Waterlogging Disasters under the Urban Storm Based on Low-impact Development Techniques (HE Ming-lei)
- 138 An Exploration of the Rain Utilization System Design in Mountainous Residential Development Based on Wuyishan Villa Project (LAN Xiao-dan,YAO Wei)

Engineering Design of the Ground

- 140 The Finite Element Analysis and Design of the Large Well Type Furnace Foundation (Chen Yao-wu, Li Jin-guo, Lu Feng)
- 142 The Design of Foundation Treatment for Suhuai Railway Culvert (XIA Ming-liang)
- 147 Design and Construction of Large Die Forging Machine Foundation & Deep Foundation (YU An-sheng, SUN Zhi-li, XU Qiang,Qi Shao-fen, DENG Feng)
- 151 Research on Landslide Stability and Treatment In Persistent Rainfall (WANG Liang-yan,WANG Zhen)
- 154 Discussion on the Support Program of High-rise Building Deep Foundation Pit and Risk Treatment Measures (LIN Yu-sheng)
- 157 Study on Dynamic Calculation of Block Foundation (HE Jin-cao)

Municipal · Traffic · Water Resources Engineering Design

- 161 Analysis on the Influence of the Foundation Pit Excavation to the Adjacent Tunnel and Corresponding Measures (HAN Xue-feng,CUI Qing-yu)
- 164 Comparison and Selection Analysis of Rail Freezing Joint in Urban Rail Transit (HANG Jin, CHEN Lin, ZHANG Xue-hua,WAN Jin)
- 167 The Study of Smooth Blasting Technology in the Great Temple Tunnel (WANG Hu-liang ,WU Yu-qing)
- 170 Calculation of Doublet Round-ended Pier in Active Seismic Region (SUN Zhi-hao)

Construction Technology

- 173 Analysis of the Adaptability Between Polycarboxylate Water Reducer and Cement (LIAO Guo-sheng, PAN Hui, XIAO Yu)
- 177 The Design and Construction of Energy Saving Glass Curtain Wall (WANG Jing, CAO Xue-song)
- 180 Study on the Application of Post Grouting Technology of Bored Concrete Pile (ZOU Kun)
- 182 The Construction Technology of the Deep Foundation Pit Adjoining the Metro (CHEN Zhi-jun)

Project Management

- 185 Discussion on the Cost Management in the Decision Design Phase (WU Xiu-ping,ZHANG Xiao-ling)
- 188 Municipal Engineering Construction Claim Opportunity Analysis (LI Jun)
- 190 The Repurchase Price Composition and Determination of the Urban Infrastructure BT Project (YUAN Bin , WANG Jiang-jun)