

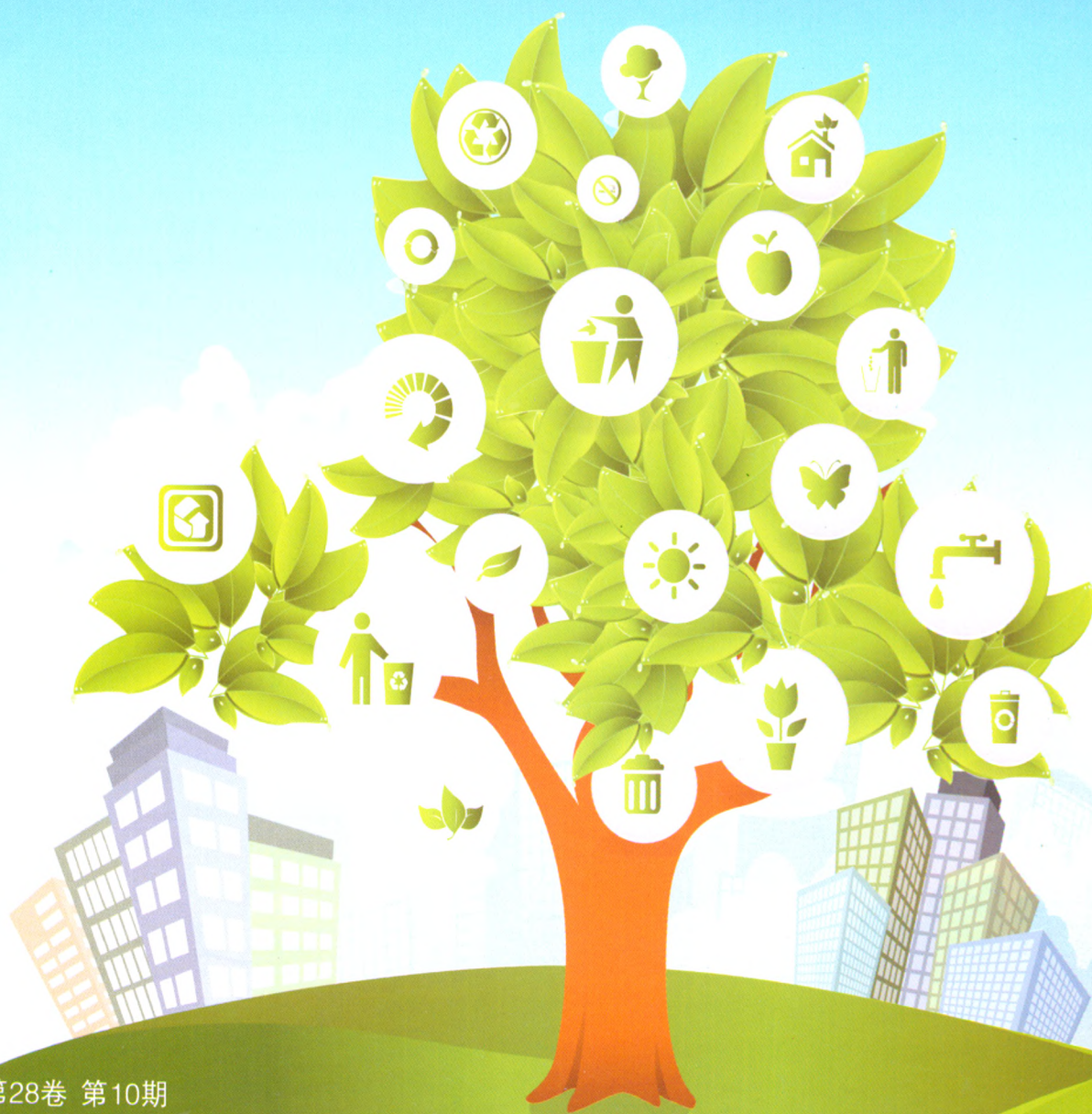
建筑科学[®]

10 2012

BUILDING SCIENCE

中文建筑科学类核心期刊
中国科技论文统计源期刊(中国科技核心期刊)

可持续建筑 Sustainable Building



第28卷 第10期
VOL.28 NO.10

ISSN 1002-8528



9 771002 852813

中国科技论文统计核心期刊
 国际 CODEN 中心收录期刊
 《中国科学引文数据库》来源期刊
 国际连续出版物数据系统收录期刊
 ICONDA 国际建筑文献数据库收录期刊
 中国科技期刊文摘(CSTA)英文版
 数据库收录期刊
 《中国学术期刊(光盘版)
 检索与评价数据规范》执行优秀期刊



建筑科学

JIANZHU KEXUE

(月刊)

第 28 卷 第 10 期(总第 183 期)

2012 年 10 月 20 日出版

(1985 年创刊)

主 办:中国建筑科学研究院
 编 辑:《建筑科学》编辑部
 地址:北京北三环东路 30 号
 邮编:100013
 电话:010-64517786;84272776
 传真:010-84272776
 E-mail:busc@263.net
 http://jzqx.chinajournal.net.cn
 总 编:赵基达 主 编:吴元炜
 副 主 编:崔建友 执行副主编:吴立民

“可持续建筑”编辑组

电话:010-64517427

E-mail:bjb365@126.com;

bjb365@gmail.com

责任编辑:李 正 编 辑:李 正
 美 编:陈 辛 策 划:王东青

* * * * *

印 刷:北京时捷印刷有限公司
 国内发行:全国各地邮局订阅
 邮发代号:2-381
 零 售:《建筑科学》编辑部发行室
 国外发行:中国国际图书贸易总公司
 (北京 399 信箱)
 广告经营许可证:京朝工商广字第 0209
 号(101)

目 次

“水源地源热泵高效应用关键技术与示范”专栏

- 我国主要城市浅层地温能利用潜力评价 王贵玲, 蔺文静, 张 薇(1)
 中国地下水源热泵技术适宜性研究 徐 伟, 王贵玲, 邹 瑜, 等(4)
 夏热冬暖地区地源热泵供热制冷系统的适应性研究
 胡映宁, 林 俊, 王 艳, 等(9)
 土壤源热泵系统设计方法探讨 肖 龙, 朱清宇, 徐 伟(15)
 地表水源热泵系统高效应用关键技术研究 王 勇, 袁 龙, 刘 勇(19)
 洗浴中心废热回收热泵热水系统性能的实验研究
 沈 朝, 姜益强, 姚 杨(24)

理论 & 实验研究

- 天津市办公建筑节能交易基准线研究 李骏龙, 由世俊, 张 欢, 等(29)
 建筑节能服务公司客户风险评价模型研究 秦 旋, 周奇琛(34)
 基于个性优势识别的绿色施工标杆评定方法研究
 邵必林, 臧 朋, 赵欢欢(41)
 模块式立体绿化对建筑节能的影响研究 吕伟姝, 陈 吉(46)
 立体高架库气流组织的改进及效果测试 王永全, 曾 鹏, 贺 征, 等(51)
 一种新型毛细管冷吊顶辐射板性能研究 史德福, 金梧凤, 陈 华(55)
 供热系统全面水力平衡方案 冯铁栓(59)

计算分析

- 某商业建筑中庭被动式节能优化设计 赵 洋, 聂金哲, 李晓锋(62)
 通信建筑围护结构保温对机房空调系统能耗的影响研究
 刘 成, 蒋雅婧, 孙甜甜(68)
 独立新风加干式风机盘管空调系统用于高温高湿地区的适应性分析
 吴爱侠, 陈 华, 张 瑜, 等(73)
 某科学实验中心高精度恒温室扰量特性研究 傅允准, 张 旭(78)
 平板太阳能集热器空气夹层内自然对流换热的数值模拟
 邓月起, 赵耀华, 全贞花, 等(84)
 相变材料蓄能式吊顶辐射供冷系统热性能模拟研究 张群力, 狄洪发(88)
 集中供热枝状管网管径优化设计新方法研究 王梅杰, 狄卫民(93)
 一种冷水机组能耗模型参数的自适应在线辨识方法 闫军威, 严中俊(98)
 空调水系统变频节能节电率测定方法 施 杨, 冀兆良, 陈金山(102)

* * * * *

[期刊基本参数] CN11-1962/TU * 1985 * b * 16 * 110 * zh * P * ¥10.00 * 8000 * 22 * 2012-10

BUILDING SCIENCE

(Monthly Journal)

No. 10 Vol. 28, Oct. 2012

(Initial Issue in 1985)

Director: China Academy of Building
Research
Edited & Published: Editorial Committee of
BUILDING SCIENCE
Address: 30 Bei San Huan Dong Lu,
Beijing 100013, China
Tel: 86-10-64517786
Fax: 86-10-84272776
E-mail: busc@263.net
http://jzcx.chinajournal.net.cn

Managing Editor: ZHAO Ji-da
Chief Editor: WU Yuan-wei
Deputy Chief Editor: WU Li-min
CUI Jian-you

"Sustainable Building" Editorial Team

Tel: 86-10-64517427
E-mail: bjb365@126.com;
bjb365@gmail.com

Responsible Editor: LI Zheng

Editor: LI Zheng

Art Editor: CHEN Xin

Planner: WANG Dong-qing

* * * * *

Distributed in China:
Post Office Code Name 2-381

Distributed Abroad:
China International Book Trading
Corporation
(GUO JI SHU DIAN)
P. O. Box 399, Beijing, China

CONTENTS

Column of Study and Demonstration on Key Technologies of Water-source and Ground-source High Efficient Application

- Evaluation on Utilization Potential of Shallow Geothermal Energy in Major Cities of China WANG Gui-ling, et al. (1)
Suitability Research on Groundwater-source Heat Pump Technology in China XU Wei, et al. (4)
Adaptability Research on Ground-source Heat Pump Heating and Cooling System in Hot Summer and Warm Winter Zone HU Yin-ning, et al. (9)
Discussion on Systemic Design Method of Ground Coupled Heat Pump XIAO Long, et al. (15)
Research on Key Technologies for High Efficient Application of Surface Water Source Heat Pump System WANG Yong, et al. (19)
Experimental Study on Heat Pump Water Heating System with Waste Heat Recovery in a Spa Center SHEN Chao, et al. (24)

Theoretical & experimental study

- Research on Energy Efficiency Trading Baseline of Office Buildings in Tianjin LI Jun-long, et al. (29)
Study on Assessment Model of Customers' Risk for Building Energy Management Companies QIN Xuan, et al. (34)
Research on Benchmarking Evaluation Method for Green Construction Based on Individual Advantage Identification SHAO Bi-lin, et al. (41)
Study on Influences of Modular Three-dimensional Greening on Building Energy Conservation LV Wei-ya, et al. (46)
Improvement and Effect Tests of Air Distribution for a Tridimensional High-rack Warehouse WANG Yong-quan, et al. (51)
Performance Study on Cold Ceiling Radiant Panel with New Capillary Tube SHI De-fu, et al. (55)
Total Hydraulic Balance Schemes for District Heating System FENG Tie-shuan (59)

Computational analysis

- Optimal Design for Passive Energy-saving Strategies of Atrium in Commercial Buildings ZHAO Yang, et al. (62)
Study on Influences of Building Envelope Insulation Performance on Energy Consumption of Air-conditioning System for Communication Buildings LIU Cheng, et al. (68)
Adaptability Analysis on Combined Use of Dedicated Outdoor Air Ventilation and Dry Cooling Coil Air-conditioning System Used for Hot and Humid Regions WU Ai-xia, et al. (73)
Research on Disturbance Characteristics of High-precision Constant Temperature Room of a Scientific Experiment Center FU Yun-zhun, et al. (78)
Numerical Study on Natural Convection Heat Transfer of Air Layer Inside the Flat Plate Solar Collector DENG Yue-chao, et al. (84)
Simulation Research on Thermal Performance of Radiant Cooling Ceiling with Phase Change Material for Thermal Storage ZHANG Qun-li, et al. (88)
Study on New Optimal Design Method for Pipeline Diameter of District Tree Path Heating Network WANG Mei-jie, et al. (93)
Adaptive Online Identification Method for Parameters of Chiller Energy Consumption Model YAN Jun-wei, et al. (98)
Determination Method for Energy-saving Rate of Air-conditioning Water System with Frequency Conversion Retrofit SHI Yang, et al. (102)