

中国电机工程学报

第 31 卷

第 11 期 (总第 382 期)

2011 年 4 月 15 日

目 次 (发 电)

· 热能工程 ·

- 火电机组直接空冷系统优化设计方法研究 张晓鲁, 汪建平, 孙锐, 董建勋, 詹扬, 柴靖宇 (1)
- 前置式液相介质空气预热器经济性分析及热力系统优化 陆万鹏, 孙奉仲, 史月涛, 高明, 等 (6)
- 六个旋风分离器并联布置循环流化床的实验研究 廖磊, 那永洁, 吕清刚, 孙运凯, 王海刚 (11)
- 不同摆角下四墙切圆燃烧器的数值模拟 李永华, 司金茹 (17)
- 还原系数对鼓泡流化床内颗粒运动影响的离散单元法数值模拟 虞育松, 张衍国, 李清海, 等 (25)

· 工程热物理 ·

- 煤气化过程中含硫化物生成特性的热力学研究 张婷, 郭庆华, 梁钦锋, 于广锁 (32)
- 神府煤加压热解特性及热解动力学分析 王贤华, 鞠付栋, 杨海平, 徐健, 张世红, 陈汉平 (40)
- 煤焦破碎及颗粒物形成的逾渗模拟 温昶, 徐明厚, 于敦喜, 岳良, 周科, 占中华, 姚洪 (45)
- 涂层表面上湿热空气对流冷凝传热的实验研究 兰忠, 房正, 张崇峰, 白涛, 马学虎 (51)
- 多孔结构毛细抽吸模型及实验验证 李金旺, 邹勇, 程林 (57)
- 加热工况及倾斜角影响单环路脉动热管稳定运行的实验研究 王宇, 李惟毅 (62)
- 二元混合蒸气凝结液界面温度的计算 胡中华, 严俊杰, 李杨 (68)
- 基于图像处理的管束间气液两相含气率的实验研究 洪文鹏, 刘燕, 周云龙 (74)
- TiO₂-硅酸铝纤维纳米复合材料光催化脱硫脱硝脱汞的实验研究 袁媛, 赵永椿, 张军营, 等 (79)

· 动力机械与工程 ·

- 基于熵产理论的离心风机性能优化 王松岭, 张磊, 叶学民, 吴正人 (86)
- HR3C/T91 异种耐热钢焊接接头的力学性能及界面蠕变失效行为研究 姚兵印, 李太江, 等 (92)

· 热工自动控制 ·

- 基于偏最小二乘回归的锅炉再热汽温建模 刘吉臻, 曲亚鑫, 田亮, 常太华 (99)
- 基于 TS 模糊模型的稳定预测控制及其在机炉协调系统中的应用 吴啸, 沈炯, 李益国 (106)
- 基于稳健估计的迭代型支持向量机及其在电站数据检验中的应用 周卫庆, 司凤琪, 乔宗良, 等 (113)
- 中速直吹磨组径向基函数神经网络信息融合-模糊启动控制 周洪煜, 张振华, 陈晓锋 (119)

· 行业信息 ·

- 关于开展第二届《中国电机工程学报》百篇杰出学术论文评选活动的通知 (126)

期刊基本参数: CN11-2107/TM * 1964 * S * A4 * 126 * zh * P * ¥25.00 * 4000 * 20 * 2011-4 版权所有 未经许可不得转载及上网

PROCEEDINGS OF THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

Vol.31 No.11 (Ser.382)

Apr. 15, 2011

CONTENTS (Power Generation)

• Thermal Engineering •

- Optimal Design Method of Direct Air-cooling System for Thermal Power Plants
..... ZHANG Xiaolu, WANG Jianping, SUN Rui, DONG Jianxun, ZHAN Yang, CHAI Jingyu (1)
- Economic Analysis and Thermodynamic System Optimization of Front-located Air Preheater With Liquid Mediator
..... LU Wanpeng, SUN Fengzhong, SHI Yuetao, GAO Ming, ZHAO Yuanbin, HUANG Xinyuan (6)
- Experimental Study on a Circulating Fluidized Bed With Six Cyclone Separators
..... LIAO Lei, NA Yongjie, LÜ Qinggang, SUN Yunkai, WANG Haigang (11)
- Numerical Simulation of Wall Arrangement Burners at Different Swing Levels..... LI Yonghua, SI Jinru (17)
- Discrete Element Method Simulation of Influence of Restitution Coefficient on Granular Kinetic Behaviors
in Spout-fluid Bed YU Yusong, ZHANG Yanguo, LI Qinghai, et al (25)

• Engineering Thermophysics •

- The Generation Properties of Sulfur Compounds During Coal Gasification by Thermodynamic Equilibrium Simulation
..... ZHANG Ting, GUO Qinghua, LIANG Qinfeng, YU Guangsuo (32)
- Kinetics and Properties Analysis of Shenfu Coal Pressurized Pyrolysis
..... WANG Xianhua, JU Fudong, YANG Haiping, XU Jian, ZHANG Shihong, CHEN Hanping (40)
- Percolation Modeling of Char Fragmentation and Particulate Matter Formation
..... WEN Chang, XU Minghou, YU Dunxi, YUE Liang, ZHOU Ke, ZHAN Zhonghua, YAO Hong (45)
- Experimental Investigation on Coating Surface on the Convection-condensation Heat Transfer of Hot Humidity Air
..... LAN Zhong, FANG Zheng, ZHANG Chongfeng, BAI Tao, MA Xuehu (51)
- Development and Experimental Verification of Capillary Pumping Model for Porous Structure
..... LI Jinwang, ZOU Yong, CHENG Lin (57)
- Experimental Investigations on the Influence of Heating Condition and Inclination Angle on Stable Operation of a Single
Loop Pulsating Heat Pipe WANG Yu, LI Weiye (62)
- Interface Temperature of Condensate for Binary Mixtures..... HU Shenhua, YAN Junjie, LI Yang (68)
- Investigation on Gas-liquid Two-phase Flow Void Fraction Across Tube Bundles Based on Images Processing Method
..... HONG Wenpeng, LIU Yan, ZHOU Yunlong (74)
- Study on Photocatalytic Experiments of Desulfurization, Denitrification and Mercury Removal Using a TiO₂-aluminum
Silicate Fiber Nanocomposite YUAN Yuan, ZHAO Yongchun, ZHANG Junying, et al (79)

• Power Mechanical Engineering •

- Performance Optimization of Centrifugal Fan Based on Entropy Generation Theory
..... WANG Songling, ZHANG Lei, YE Xuemin, WU Zhengren (86)
- Mechanical Properties and Interfacial Creep Failure Behaviors Between HR3C/T91 Dissimilar Heat-resistant
Steel Welded Joints..... YAO Bingyin, LI Taijiang, et al (92)

• Heat Power Engineering Automatic Control •

- Modelling of Utility Boiler Reheat Steam Temperature Based on Partial Least Squares Regression
..... LIU Jizhen, QU Yaxin, TIAN Liang, CHANG Taihua (99)
- Stable Model Predictive Control Based on TS Fuzzy Model With Application to Boiler-turbine Coordinated System
..... WU Xiao, SHEN Jiong, LI Yiguo (106)
- Iterative Support Vector Machine Based on Robust Estimation and Its Application in Data Validation in Power Plant
..... ZHOU Weiqing, SI Fengqi, QIAO Zongliang, et al (113)
- Radial Basis Function Neural Network-data Fusion and Fuzzy Control During Direct-firing Medium-speed Mill's Start-up
..... ZHOU Hongyu, ZHANG Zhenhua, CHEN Xiaofeng (119)