

ISSN 0258-8013

CODEN ZDGXER

中国电机工程学报

旬刊

第 31 卷 第 20 期

Proceedings of the CSEE

THREE TIMES A MONTH

Vol.31 No.20

(特别关注: 发电)



7月 中旬
2011
2011-07-15 出版

ISSN 0258-8013



9 770258 801117
万方数据



中国电机工程学会主办
THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

中国电机工程学报

第 31 卷

第 20 期 (总第 391 期)

2011 年 7 月 15 日

目 次 (发 电)

· 热能工程 ·

- 富氧燃烧循环流化床锅炉炉内传热特性 王春波, 侯伟军, 陈传敏, 霍志红 (1)
- 灰含量及助熔剂对气流床粉煤气化炉性能的影响 孙钟华, 代正华, 周志杰, 于广锁 (7)
- 环境风对空冷单元运行性能影响的数值研究 何纬峰, 戴义平, 马庆中 (13)
- 垃圾焚烧炉内水分干燥过程分析及其仿真研究 白焰, 秦宇飞, 冯峰, 潘竟斌 (19)
- 三分仓回转式空气预热器轴向和周向泄漏耦合计算 刘福国, 郝卫东, 周新刚, 姜波 (27)
- 固体氧化物燃料电池与质子交换膜燃料电池联合系统的建模与仿真 谭玲君, 杨晨 (33)

· 工程热物理 ·

- 孔隙分形结构对煤焦燃烧特性影响的数值研究 何威, 何榕, 王晓亮 (40)
- 多孔介质表面火焰最小稳燃空间实验研究 冯耀勋, 王勇, 蒋利桥, 赵黛青, 汪小愁 (46)
- 贵州无烟煤的燃烧动力学特性和 NO_x 生成机制试验研究 陈瑶姬, 周志军, 周宁, 杨卫娟, 等 (52)
- 同时脱硫脱硝过程中钙基吸收剂表面孔隙结构变化规律 陈国庆, 高继慧, 尹伊郡, 贾利峰, 等 (60)
- 单回路脉动热管温度振荡特性实验研究 苏磊, 张红, 丁锐, 丁雷江 (67)
- 交错搭接螺旋折流板换热器壳程流动与传热的场协同分析 汲水, 杜文静, 王鹏, 程林 (75)
- 海水淡化系统中水平管降膜蒸发器流动与传热特性数值研究 侯昊, 毕勤成, 张晓兰 (81)
- 气液两相流图像区域相似值序列的混沌特性研究 周云龙, 李洪伟, 杨悦 (88)
- 近临界压力区临界热流密度的流体模化 王美霞, 韩吉田, 邵莉 (95)
- 一种新型拓扑结构的电阻层析成像有限元模型 肖理庆, 王化祥, 韩成春 (100)

· 动力机械与工程 ·

- 新型耐热钢 T23 的特性与早期失效分析 赵慧传, 凌荣华, 贾建民, 赵建仓 (107)

· 热工自动控制 ·

- 改进量子粒子群算法及其在系统辨识中的应用 黄宇, 韩璞, 刘长良, 李永玲 (114)

· 可再生能源发电 ·

- 农业秸秆烘焙热分析 朱波, 王贤华, 杨海平, 陈应泉, 张世红, 陈汉平 (121)
- 虚拟风场和风力机模拟系统的实验研究 窦真兰, 王晗, 张秋琼, 凌志斌, 蔡旭 (127)

期刊基本参数: CN11-2107/TM * 1964 * S * A4 * 135 * zh * P * ¥25.00 * 4000 * 20 * 2011-7 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.20 (Ser.391)

Jul. 15, 2011

CONTENTS (Power Generation)

• Thermal Engineering •

- Heat Transfer Characteristic in Oxy-fuel Circulating Fluidized Bed Boiler
..... WANG Chunbo, HOU Weijun, CHEN Chuanmin, HUO Zhihong (1)
- Effects of Ash Content and Flux on the Performance of Entrained-flow Pulverized Coal Gasifier
..... SUN Zhonghua, DAI Zhenghua, ZHOU Zhijie, YU Guangsuo (7)
- Numerical Study on the Performance of an Air-cooled Condenser Cell Under Wind Influence
..... HE Weifeng, DAI Yiping, MA Qingzhong (13)
- Drying Process Analysis and Simulation of Water in Municipal Solid Waste Incinerator
..... BAI Yan, QIN Yufei, FENG Feng, PAN Jingbin (19)
- Coupled Axial and Peripheral Mass Leakage Calculation in Tri-section Rotary Regenerative Air Heater
..... LIU Fuguo, HAO Weidong, ZHOU Xingang, JIANG Bo (27)
- Modeling and Simulation of a Hybrid System Combining Solid Oxide and Proton Exchange Membrane Fuel Cell
..... TAN LingJun, YANG Chen (33)

• Engineering Thermophysics •

- Numerical Study on Effect of Fractal Pore Structure on Char Combustion Characteristics
..... HE Wei, HE Rong, WANG Xiaoliang (40)
- The Smallest Distance for Stable Combustion Experimental Study of Flames on Porous Surface
..... FENG Yaoxun, WANG Yong, JIANG Liqiao, ZHAO Daiqing, WANG Xiaohan (46)
- Combustion Kinetics Characteristics and Experimental Study on NO_x Formation Mechanism of Guizhou Anthracite
..... CHEN Yaoji, ZHOU Zhijun, ZHOU Ning, YANG Weijuan, et al (52)
- Evolution of Pore Structure of Ca-based Sorbent in Simultaneous Removal of SO₂ and NO_x
..... CHEN Guoqing, GAO Jihui, YIN Yijun, JIA Lifeng, et al (60)
- Experimental Study on Temperature Oscillation Characteristic of Single-loop Pulsating Heat Pipe
..... SU Lei, ZHANG Hong, DING Rui, DING Leijiang (67)
- Field Synergy Analysis on Shell-side Flow and Heat transfer of Heat Exchanger With Staggered Overlap Helical Baffles
..... JI Shui, DU Wenjing, WANG Peng, CHENG Lin (75)
- Numerical Study on Flow and Heat Transfer Characteristics of Horizontal-tube Falling-film Evaporators
in Seawater Desalination System..... HOU Hao, BI Qincheng, ZHANG Xiaolan (81)
- Block Chaotic Characteristics of Image Sequence of Gas-liquid Two-phase Flow..... ZHOU Yunlong, LI Hongwei, YANG Yue (88)
- Fluid to Fluid Modeling of Critical Heat Flux at Near Critical Pressures..... WANG Meixia, HAN Jitian, SHAO Li (95)
- A New Topology Structure Finite Element Model of Electrical Resistance Tomography System
..... XIAO Liqing, WANG Huaxiang, HAN Chengchun (100)

• Power Mechanical Engineering •

- New Heat-resistant Steel T23's Performance Characteristics and Early Failure
..... ZHAO Huichuan, LING Ronghua, JIA Jianmin, ZHAO Jiancang (107)

• Heat Power Engineering Automatic Control •

- An Improved Quantum Particle Swarm Optimization and Its Application in System Identification
..... HUANG Yu, HAN Pu, LIU Changliang, LI Yongling (114)

• Renewable Power Generation •

- Thermal Analysis of Agricultural Straw Torrefaction
..... ZHU Bo, WANG Xianhua, YANG Haiping, CHEN Yingquan, ZHANG Shihong, CHEN Hanping (121)
- Experimental Research on Virtual Wind Farm and Wind Turbine Emulator System
..... DOU Zhenlan, WANG Han, ZHANG Qiuqiong, LING Zhibin, CAI Xu (127)