

ISSN 0258-8013

CODEN ZDGXER

中国电机工程学报

旬刊

第 32 卷 第 29 期

Proceedings of the CSEE

THREE TIMES A MONTH

Vol.32 No.29

(特别关注:发电)



10月中旬
2012
2012-10-15 出版

ISSN 0258-8013



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

ZHONGGUO DIANJI GONGCHENG XUEBAO

第 32 卷

第 29 期 (总第 436 期)

2012 年 10 月 15 日

目 次 (发 电)

英文概述一览 (S1—S20)

• 热能工程 •

- 燃煤发电技术发展展望 蒋敏华, 黄斌 (1)
- 大型燃煤蒸汽动力发电机组热力系统内能耗作用的计算与应用分析 王利刚, 吴令男, 徐钢, 等 (9)
- 辐射废锅入口结构对流场及颗粒分布的影响 李贤斌, 郭庆华, 周志杰, 代正华, 于广锁 (15)
- 降低冷灰斗内灰渣含碳量的数值模拟和试验研究 孙保民, 白涛, 郭永红, 康志忠, 肖海平, 等 (22)
- 废液焚烧余热锅炉内气固两相流动与飞灰沉积的数值模拟 穆林, 赵亮, 尹洪超 (30)
- CO_2/N_2 作输送载气对煤粉高压密相气力输送特性的影响 贺春辉, 沈湘林, 胥宇鹏, 陈先梅, 等 (38)
- 微波加热改性活性炭及其对 SO_2 吸附性能的影响 李兵, 蒋海涛, 张立强, 王志强, 马春元 (45)
- 低阶煤 O_2/CO_2 气氛下燃烧生成颗粒物的特性 汪应红, 王群英, 付晓恒 (52)
- 不同气氛下硼粉燃烧特性及动力学研究 敖文, 杨卫娟, 汪洋, 刘建忠, 周俊虎, 岑可法 (59)
- 大容量空冷电厂主汽轮机同轴驱动给水泵技术研究 崔占忠, 郭晓克, 石志奎, 孙丰, 陈冠益 (66)
- 直接空冷单元风机入口脉动气流的谱特征研究 李宴君, 唐大伟, 张璟, 温娟 (73)
- 考虑湿蒸汽行为的汽轮机排汽缸内流动的三维数值研究 曹丽华, 刘佳, 李勇, 陈洋, 周云龙 (79)
- 基于电流断路法的空冷型燃料电池阻抗谱实验分析 王珂, 陈维荣, 韩明, 李奇, 游志宇 (87)
- 煤基近零排放系统中固体氧化物燃料电池本体的模拟研究 严林博, 何伯述, 裴晓辉, 宋卫宁, 等 (94)

• 可再生能源发电 •

- 基于高斯过程回归的短期风速预测 孙斌, 姚海涛, 刘婷 (104)

• 热工自动控制 •

- 基于非线性块式递推偏最小二乘法的电站热力过程动态数据检验 周建新, 吴盈, 司凤琪, 等 (110)
- 一种基于时域响应的控制系统频率特性分析方法 李军, 万文军, 刘志刚, 陈世和, 张曦 (116)
- 给定结构低阶控制器的 H_∞ 回路成形设计及在蒸汽发生器水位控制中的应用 周世梁, 刘玉燕 (123)

• 动力机械与工程 •

- 斜齿轮-平行轴转子系统模态耦合特性分析 马辉, 朱丽莎, 王奇斌, 张义民 (131)
- T91 钢组织退化行为及对高温持久强度的影响 王学, 张珣, 占良飞, 任遥遥 (137)

PROCEEDINGS OF THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

Vol.32 No.29 (Ser.436)

Oct. 15, 2012

CONTENTS (Power Generation)

Extended Summary (S1~S20)

• Thermal Engineering •

- Prospects on Coal-fired Power Generation Technology Development JIANG Minhua, HUANG Bin (1)
- Calculation and Analysis of Energy Consumption Interactions in Thermal Systems of Large-scale Coal-fired Steam Power
Generation Units..... WANG Ligang, WU Lingnan, XU Gang, DONG Changqing, YANG Yongping (9)
- Numerical Study on Effects of Inlet Structure of Radiant Syngas Cooler on Flow Field and Particle Concentration
.....LI Xianbin, GUO Qinghua, ZHOU Zhijie, DAI Zhenghua, YU Guangsu (15)
- Numerical Simulation and Experimental Research on Reducing Carbon Content in Slag in a Tangential Fired Boiler
..... SUN Baomin, BAI Tao, GUO Yonghong, KANG Zhizhong, XIAO Haiping, LIU Jianquan, RAO Su (22)
- Numerical Simulation of Gas-solid Two-phase Flows and Ash Deposition in a Wastewater Incineration Heat Recovery Steam
Generator MU Lin, ZHAO Liang, YIN Hongchao (30)
- Influences of CO₂/N₂ as Carrier Gas on Dense Phase Pneumatic Conveying of Pulverized Coal at High Pressure
..... HE Chunhui, SHEN Xianglin, XU Yupeng, CHEN Xianmei, WANG Jianhao, NI Hongliang, ZHOU Haijun, et al (38)
- Modification of Activated Carbon by Microwave Heating and Its Effects on SO₂ Adsorption
..... LI Bing, JIANG Haitao, ZHANG Liqiang, WANG Zhiqiang, MA Chunyuan (45)
- Fine Particles Formation During O₂/CO₂ Combustion of Low-rank Coal ... WANG Yinghong, WANG Qunying, FU Xiaoheng (52)
- Study on Combustion Characteristics and Kinetics of Boron in Different Atmosphere
..... AO Wen, YANG Weijuan, WANG Yang, LIU Jianzhong, ZHOU Junhu, CEN Kefa (59)
- Technical Researches on Feed Water Pumps Coaxially Driven by Turbines in Large Capacity Dry-cooling Power Plants
..... CUI Zhazhong, GUO Xiaoke, SHI Zhikui, SUN Feng, CHEN Guanyi (66)
- Study on Spectral Characteristics of Pulsatile Airflow in Fan Inlet of a Direct Air-cooling Condenser
..... LI Yanjun, TANG Dawei, ZHANG Jing, WEN Juan (73)
- 3D Numerical Analysis of Wet Steam Flow in Exhaust Hoods of Steam Turbines
..... CAO Lihua, LIU Jia, LI Yong, CHEN Yang, ZHOU Yunlong (79)
- Experimental Diagnosis of Air Breath Proton Exchange Membrane Fuel Cell Through Current Interrupt
..... WANG Ke, CHEN Weirong, HAN Ming, LI Qi, YOU Zhiyu (87)
- Simulation Research of Solid Oxide Fuel Cell Integrated in Zero-emission Coal Systems
..... YAN Linbo, HE Boshu, PEI Xiaohui, SONG Weining, CHEN Qi, SONG Jingge (94)

• Renewable Power Generation •

- Short-term Wind Speed Forecasting Based on Gaussian Process Regression Model
..... SUN Bin, YAO Haitao, LIU Ting (104)

• Heat Power Engineering Automatic Control •

- Dynamic Data Validation of Thermodynamic Systems in Power Plants Based on Nonlinear Block-wise Recursive Partial
Least Squares..... ZHOU Jianxin, WU Ying, SI Fengqi, XU Zhigao (110)
- A Method of Frequency Domain Analysis for Control Systems Based on Process Response in Time Domain
..... LI Jun, WAN Wenjun, LIU Zhigang, CHEN Shihe, ZHANG Xi (116)
- Structured Low Order Controller Design for H_∞ Loop Shaping Method and Application in Water Level Control of Steam Generators
..... ZHOU Shiliang, LIU Yuyan (123)

• Power Mechanical Engineering •

- Modal Coupling Characteristic Analysis of a Helical Gear Rotor System With Parallel Shafts
..... MA Hui, ZHU Lisha, WANG Qibin, Zhang Yimin (131)
- Microstructure Degradation Behavior and Its Influence on High Temperature Stress Rupture Limit of T91 Steel
..... WANG Xue, ZHANG Xun, ZHAN Liangfei, REN Yaoyao (137)