

全国中文核心期刊 · 中国科技核心期刊 · 全国中文核心期刊 · 中国科技核心期刊

THERMAL
POWER
GENERATION

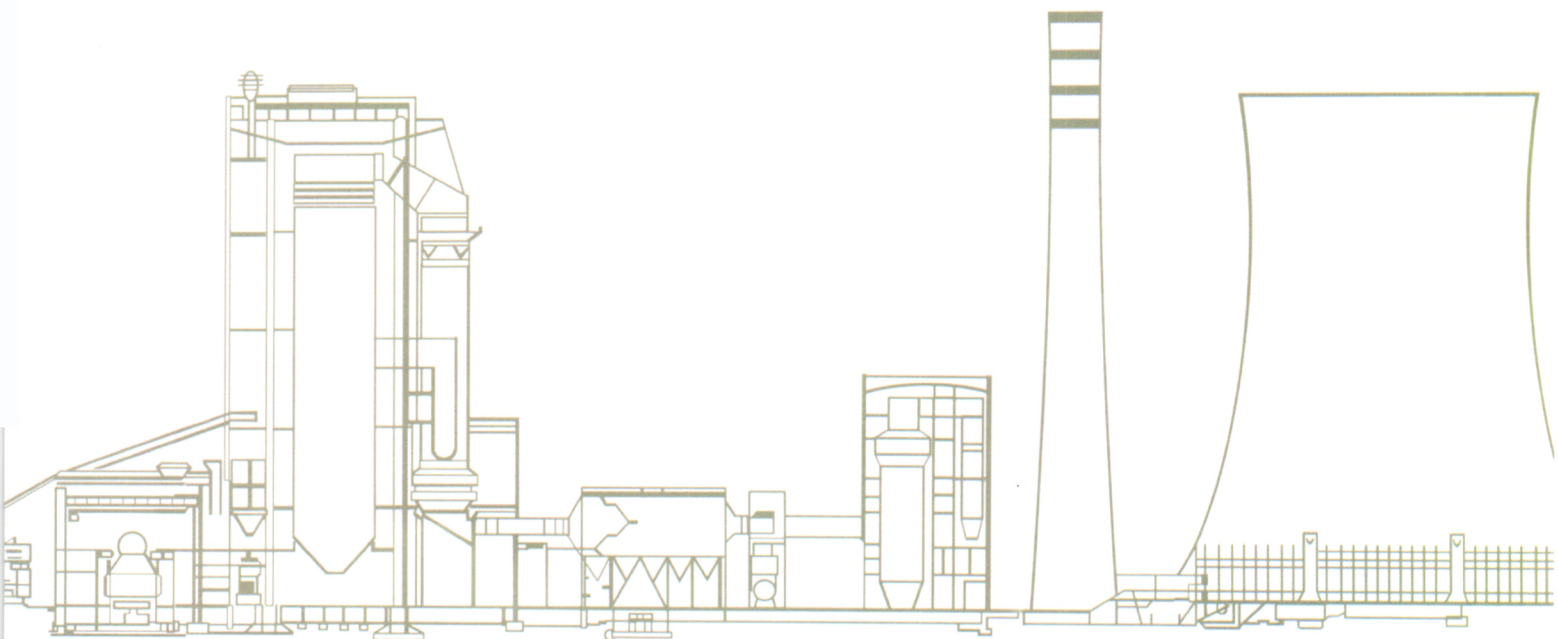
ISSN1002-3364
CN61-1111/TM

热力发电

2014.1

总326期
1972年创刊
第43卷

■ 主办：西安热工研究院有限公司 ■ 中国电机工程学会



万方数据

CONTENTS

目次

技术经济综述

- 01 叶轮机械旋转失速研究进展 //张磊,王松岭,胡晨星
- 06 机组余热利用的热经济性分析 //李慧君,谷凯娜,马超
- 11 2种超临界W火焰锅炉技术特点比较 //朱啓水,戴维葆
- 15 660 MW 机组凝结水泵变频控制逻辑优化 //郗成超,俞静

热能科学研究

- 21 遗传算法在火电机组冷端系统优化中的应用 //李千军,刘光耀,赵全斌,巨林仓,种道彤
- 26 Application of genetic algorithm in cold end system optimization for thermal power plants
//LI Qianjun, LIU Guangyao, ZHAO Quanbin, JU Lincang, CHONG Daotong
- 31 O₂/CO₂ 气氛下无烟煤着火温度的实验与模型研究 //顾广锦,周月桂,金旭东,许杨杨
- 36 EMD 中有效 IMF 选取方法的研究 //丁常富,蔡志成
- 41 2台国产 300 MW 循环流化床锅炉混煤掺烧及性能试验对比 //宁新宇
- 46 超临界空冷机组协调控制中新型热值校正方法的研究与应用 //倪敏,魏向国,张明法
- 52 空冷风机组运行性能优化研究 //董康田,闫宏,孙大伟,王星
- 57 等转化率法对生物质热解动力学研究 //张海涛,于庆波,秦勤,谢华清
- 61 大孔阴树脂水中受热降解动力学研究 //尉院春,周柏青
- 66 菲涅尔式太阳能集热系统性能研究 //刘冠杰,左钧,郑建涛,刘明义,裴杰,徐海卫
- 69 12%Cr 马氏体钢焊缝金属 45 000 h 高温服役老化分析 //陈德龙,王弘喆,候淑芳,梁法光,王军刚
- 74 DT II (A)型带式输送机滚轮对接焊缝的超声波检测
//敬尚前,牛晓光,郝晓军,王强,刘长福,董国振,孙澎,代真,薛永波
- 80 新型过/再热器化学清洗剂的性能研究 //张祥金,邓宇强,尹萍,刘锋,倪瑞涛
- 85 Z 比分数-模糊综合评价模型在煤质实验室室间质量评价中的应用
//郝振达,张宏亮,孔祥铭,李薇,黄国和
- 90 钒钛基 SCR 脱硝催化剂失活原因分析 //盛思伟,程华,韦正乐,黄碧纯,阮东亮
- 96 湿式氨法烟气脱硫工艺影响因素的试验研究 //丁红蕾,苏秋凤,张涌新,文雯,高翔

发电技术论坛

- 99 煤质自适应校正方案建模仿真//刘友宽,潘巾杰,田 沛,赵永辉,朱全聪
- 106 汽轮发电机组甩负荷过程中主要控制系统的设计与优化
//王 峥,李 伟,李小林,沈乾坤,赵伟刚
- 110 某燃煤电厂除尘器滤袋破损原因分析//李东梅,田娱嘉,郭 阳,李 媛,吴文龙
- 115 循环流化床锅炉外置床传热系数的测定和关联 //孙献斌,时正海,金森旺,刘海峰,赵鹏博,李 力
- 118 永磁直驱风力发电机辅助散热段散热分析//王丁会,刘广林,杨怀宇
- 122 国产 Profibus-DP 现场总线主站系统设计 //李哲毓,张博威,崔逸群
- 125 基于云计算工业视频级联的生产实时监控管理系统开发与应用
//徐创学,温新明,周建武,刘红斌,杨永国
- 128 330 MW 机组对冲燃烧锅炉燃烧问题综合治理//范永胜,赵振宁

现场经验交流

- 133 循环流化床锅炉 SNCR 脱硝系统优化及应用//屈卫东,周建强,杨建华,秦光耀
- 137 某核电机组高压缸裂纹的焊接修复 //葛炼伟,唐世延,李太江,李 巍,李 勇,李聚涛
- 140 超临界 660 MW 空冷机组基建期汽水品质控制要点//李路江,孙心利
- 142 双套管气力输灰管道优化改造//郭俊海,贾少刚,娄海涛

[期刊基本参数]CN61-1111/TM*1972*b*A4*84*zh*P*¥16.00*3000*31*2014-1

THERMAL POWER GENERATION

CONTENTS

Research progress of rotating stall in turbomachinery	ZHANG Lei, WANG Songling, HU Chenxing (1)
Thermal economic analysis for a power unit with waste heat utilization	LI Huijun, GU Kaina, MA Chao (6)
Technical features comparison of two supercritical unit W flame boilers	ZHU Xiaoshui, DAI Weibao (11)
Optimization on frequency conversion control logic for condensate pump in a 660 MW unit	XI Chengchao, YU Jing (15)
Application of genetic algorithm in cold end system optimization for thermal power plants	LI Qianjun, LIU Guangyao, ZHAO Quanbin, JU Lincang, CHONG Daotong (21)
Ignition temperature of anthracite coal in O ₂ /CO ₂ atmospheres: experimental study and modeling prediction	GU Guangjin, ZHOU Yuegui, JIN Xudong, XU Yangyang (31)
Methods of selecting valid IMF in EMD	DING Changfu, CAI Zhicheng (36)
Comparative study on blended coal combustion and performance test for two domestic 300 MW CFB boilers	NING Xinyu (41)
New calorific value calibration method for coordinated control of supercritical air-cooling units: study and application	NI Min, WEI Xiangguo, ZHANG Mingfa (46)
Optimization on operation performance of air cooling fan cluster	DONG Kangtian, YAN Hong, SUN Dawei, WANG Xing (52)
Kinetic study on biomass pyrolysis processes by iso-conversional method	ZHANG Haitao, YU Qingbo, QIN Qin, XIE Huaqing (57)
Thermal degradation kinetics of condensate polishing anion exchange resin	YU Yuanchun, ZHOU Baiqing (61)
Performance study on linear fresnel solar thermal system	LIU Guanjie, ZUO Jun, ZHENG Jiantao, LIU Mingyi, PEI Jie, XU Haiwei (66)
Microstructural evolution of 12%Cr martensite steel weld joint at high temperature for 45 000 hours service	CHEN Delong, WANG Hongzhe, HOU Shufang, LIANG Faguang, WANG Jungang (69)
Ultrasonic inspection on butt weld of DT II (A) type belt conveyor rolling wheel in a 660 MW unit	JING Shangqian, NIU Xiaoguang, HAO Xiaojun, WANG Qiang, LIU Changfu, DONG Guozhen, SUN Peng, DAI Zhen, XUE Yongbo (74)
Performance analysis for a new chemical cleaning agent for superheaters and reheaters	ZHANG Xiangjin, DENG Yuqiang, YIN Ping, LIU Feng, NI Ruitao (80)
Application of a robust statistics based fuzzy comprehensive evaluation method in quality assessment between coal property laboratories	HAO Zhenda, ZHANG Hongliang, KONG Xiangming, LI Wei, HUANG Guohe (85)
Deactivation of vanadium and titanium based SCR catalyst used in coal-fired power plants	PAN Siwei, CHENG Hua, WEI Zhengle, HUANG Bichun, RUAN Dongliang (90)
Experimental study on factors affecting the ammonia-based WFGD process	DING Honglei, Su Qiu feng, Zhang Yongxin, Wen Wen, GAO Xiang (96)
Simulation of coal quality correction program	LIU YOUkuan, PAN JINjie, TIAN Pei, ZHAO YONGhui, ZHU Quancong (99)
Realization of main automatic control in load rejection test for turbine power plants	WANG Zheng, LI Wei, LI Xiaolin, SHEN Qiankun, ZHAO Weigang (106)
Reason analysis for filter bag damage in a coal-fired power plant	LI Dongmei, TIAN Yujia, GUO Yang, LI Yuan, WU Wenlong (110)
Measurment and empirical correlation of heat transfer coefficient in external heat exchanger of a CFB boiler	SUN Xianbin, SHI Zhenghai, JIN Senwang, LIU Haifeng, ZHAO Pengbo, LI Li (115)
Thermal analysis on auxiliary cooling sections of a permanent magnet direct-driven wind turbine	WANG Dinghui, LIU Guanglin, YANG Huaiyu (118)
Design of domestic Profibus-DP master system	LI Zheyu, ZHANG Bowei, CUI Yiqun (122)
Cloud computing industrial video cascade based online monitoring and management system for enterprise operation: development and application	XU Chuangxue, WEN Xinming, ZHOU Jianwu, LIU Hongbin, YANG Yongguo (125)
Diagnosis and comprehensive control of combustion problems occurred on a 330 MW opposed-firing boiler	FAN Yongsheng, ZHAO Zhenning (128)
SNCR denitrification system in CFB boilers: optimization and application	QU Weidong, ZHOU Jianqiang, YANG Jianhua, QIN Guangyao (133)
Welding repair technology for cracks on high pressure cylinder in a nuclear power plant	GE Lianwei, TANG Shiyan, LI Taijiang, LI Wei, LI Yong, LI Jutao (137)
Steam-water quality control points of a supercritical 660 MW air cooling unit in construction period	LI Lujiang, SUN Xinli (140)
Improvement of the pipeline of double casing pipe pneumatic ash conveying system	GUO Junhai, JIA Shaogang, LOU Haitao (142)

RE LI FA DIAN

ISSN 1002-3364



ISSN1002-3364
万方数据

CN61-1111/ TM

邮发代号：52-103

国内定价：16.00元