

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**

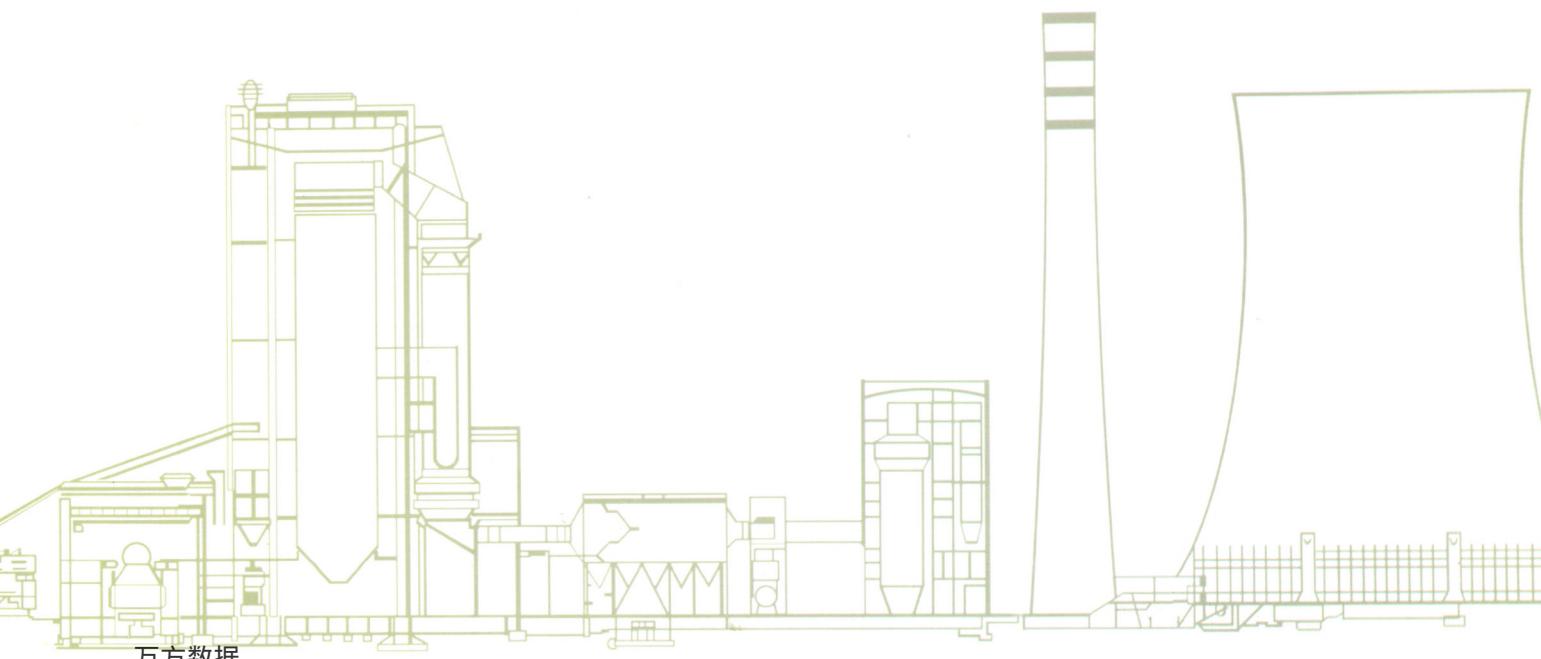
ISSN 1002-3364
CN 61-1111/TM
CODEN RFEAC8

热力发电

2014.3

总328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

热力发电

第43卷 第3期 总第328期

CONTENTS

目 次

技术经济综述

- 01 燃煤机组脱硫设施运行情况调查分析//杜振,钱徐悦,张杨,朱跃
- 05 燃气轮机进气冷却系统对机组经济性的影响//朱斌帅,张费
- 09 动力透平叶栅的多工况气动性能优化//薛志恒,李军,王伟锋,付昶

热能科学研究

- 14 抽汽供热与循环水-水源热泵供热能耗分析 // 刘剑涛,任建兴,杨涌文,李芳芹
- 17 Energy consumption analysis for extraction steam heating and circulating water-water source heat pump heating // LIU Jiantao, REN Jianxing, YANG Yongwen, LI Fangqin
- 21 超超临界1000 MW 机组直流锅炉中间点温度建模 // 方彦军,王振宇,李鑫,叶向前
- 26 双排管直接空冷换热元件性能试验研究 // 万超,陈胜利,吕凯,吴润华
- 30 350 MW 机组W火焰锅炉燃烧优化试验与性能预测 // 苏宏亮,阎维平,高正阳,靳菲
- 37 颗粒帘换热单元的稳态换热特性研究 // 陈冬林,邹婵,杜洋,刘欢
- 43 零水耗烟气湿法脱硫系统试验研究 // 熊英莹,王自宽,张方炜,李英伟,李佩,陈海霞,谭厚章
- 47 核电站除氧器水位控制模型的仿真研究 // 吴婕,许志斌,马晓茜
- 52 含油污泥大物料热重实验研究 // 谢磊,李爱民,高宁博,马蒸钊
- 58 超超临界锅炉含微裂纹HR3C受热面J积分数值模拟 // 邓平,王伟,汪淑奇,钟万里,陈冬林
- 65 填料组合板蒸发式冷却器传热性能实验研究 // 石仲璟,施筠逸,钱泰磊,郭震,朱冬生
- 71 V型布风板双循环流化床颗粒循环流率实验研究 // 陈鸿伟,张志才,于辰宏,吴晶,何俊鹏
- 76 600 MW 机组直接空冷系统动态特性研究 // 刘文华,李高潮,闫永强,陈胜利,荆涛,吕凯,万超
- 79 较大直径倾斜圆管内蒸汽凝结换热实验关联式研究 // 叶胜,杨建国,鞠晓丽,代善良
- 83 烟气脱水SPEEK/PES复合膜的表征及吸附性能 // 杜文韬,陈海平,周亚男,仲雅娟,兰俊杰
- 87 再热凝汽式汽轮机调速系统模型的仿真及验证 // 盛皓,朱晓星

发电技术论坛

- 92 蒸汽喷射热泵在火电机组回热系统局部改造中的应用 // 郭江龙,于鑫伟,陈海平,鲁光武,谢秀英
- 96 省煤器烟气旁路在 SCR 烟气脱硝系统中的应用 // 董 陈,王晓冰,牛国平
- 101 过热器复合柠檬酸清洗可行性分析 // 林卫丽,邓宇强,张祥金,曹杰玉,刘 锋
- 104 LSMW 的 Direct Input 方法在 SAP 中的应用 // 马瑞瑞,杜保华,舒 进,刘振宇,孙靖初
- 107 垃圾焚烧厂高压蒸汽空气预热器疏水母管管径的设计选择 // 陈宋璇,陈南翔,张文坤,刘海威
- 110 现场总线设备监控管理系统的研发 // 王春利,高鹏里,胡 博,高海东

现场经验交流

- 113 1 025 t/h 锅炉过热器二级减温器改造 // 黄俊杰
- 116 480 t/h 锅炉改烧准东煤改造 // 常家星,杨忠灿,李尚华,姚 伟

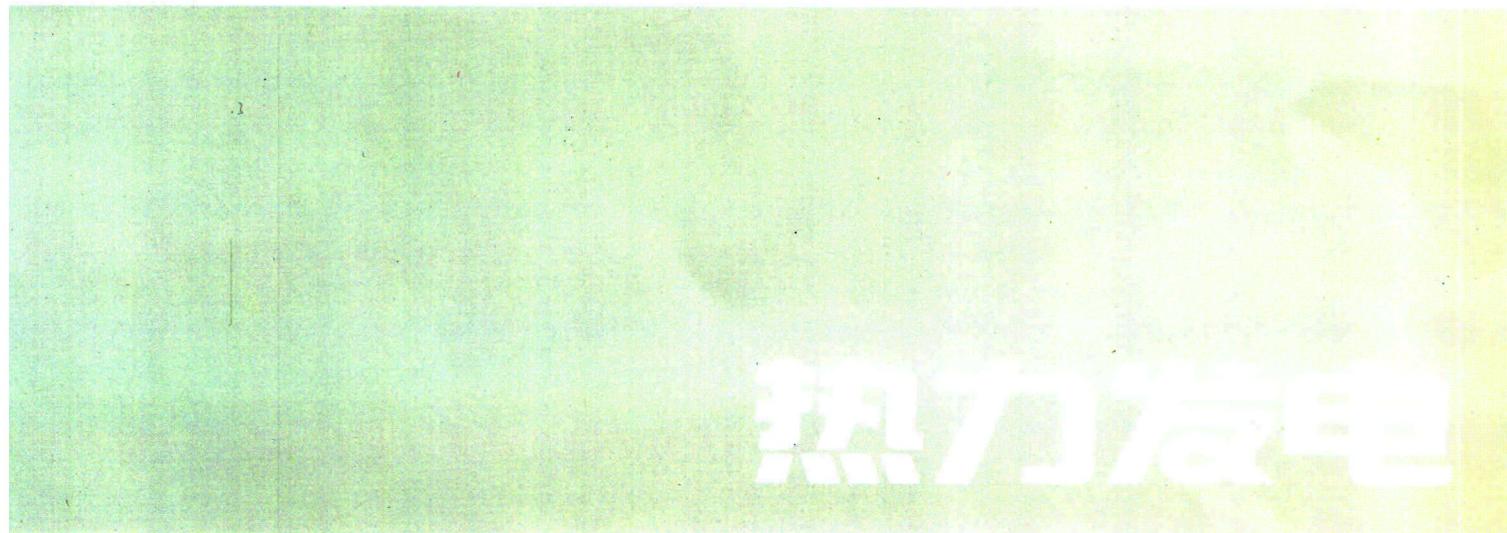
[期刊基本参数]CN61-1111/TM*1972*b*A4*84*zh*P*¥16.00*4500*27*2014-3

THERMAL POWER GENERATION

CONTENTS

Survey on operation conditions of desulfurization facilities in coal-fired units	<i>DU Zhen, QIAN Xuyue, ZHANG Yang, ZHU Yue</i> (1)
Effect of inlet air cooling system on gas turbine unit's economy	<i>ZHU Binshuai, ZHANG Yun</i> (5)
Multi-conditions aerodynamic performance optimization of a power turbine cascade	<i>XUE Zhiheng, LI Jun, WANG Weifeng, FU Chang</i> (9)
Energy consumption analysis for extraction steam heating and circulating water-water source heat pump heating	<i>LIU Jiantao, REN Jianxing, YANG Yongwen, LI Fangqin</i> (14)
Mathematical modeling of intermediate point temperature for an ultra supercritical 1 000 MW unit once-through boiler	<i>FANG Yanjun, WANG Zhenyu, LI Xin, YE Xiangqian</i> (21)
Experimental investigation on performance of direct air-cooled heat exchanger elements of double-row tubes	<i>WAN Chao, CHEN Shengli, LU Kai, WU Runhua</i> (26)
Combustion optimization test and performance prediction for a 350 MW unit W-flame boiler	<i>SU Hongliang, YAN Weiping, GAO Zhengyang, JIN Fei</i> (30)
Steady heat transfer characteristics of a particle curtain based heat exchanger	<i>CHEN DongLin, ZOU Chan, DU Yang, LIU Huan</i> (37)
Experimental study on a zero water consumption FGD system	<i>XIONG Yingying, WANG Zikuan, ZHANG Fangwei, LI Yingwei, LI Pei, CHEN Haixia, TAN Houzhang</i> (43)
Numerical simulation on water level control model for deaerators in nuclear power plants	<i>WU Jie, XU Zhibin, MA Xiaoqian</i> (47)
Macro thermogravimetric analysis on oil sludge	<i>XIE Lei, LI Aimin, GAO Ningbo, MA Zhengzhao</i> (52)
Numerical study on <i>J</i> -integral of HR3C heating surface with micro-cracks for ultra supercritical boilers	<i>DENG Ping, WANG Wei, WANG Shuqi, ZHONG Wanli, CHEN Donglin</i> (58)
Experimental study on heat transfer performance of filler-plate combination evaporative coolers	<i>SHI Zhongjing, SHI Yunyi, QIAN Tailei, GUO Zhen, ZHU Dongsheng</i> (65)
Experimental research on particle circulating rate in a dual circulating fluidized bed with V-type distributor	<i>CHEN Hongwei, ZHANG Zhicai, YU Chenhong, WU Jing, HE Junpeng</i> (71)
Experimental study on dynamic characteristics of direct air-cooling system in a 600 MW unit	<i>LIU Wenhua, LI Gaochao, YAN Yongqiang, CHEN Shengli, JING Tao, LU Kai, WAN Chao</i> (76)
A heat transfer experimental correlation for steam condensation flow in an inclined tube with large diameter	<i>YE Sheng, YANG Jianguo, JU Xiaoli, DAI Shanliang</i> (79)
Characterization and adsorption properties of SPEEK/PES composite membranes for flue gas dehydration	<i>DU Wentao, CHEN Haiping, ZHOU Yanan, ZHONG Yajuan, LAN Junjie</i> (83)
Model of reheat condensing turbine and its governing system; simulation and verification	<i>SHENG Kai, ZHU Xiaoxing</i> (87)
Application of steam ejector heat pump in partial innovation of heat regenerative system	<i>GUO Jianglong, YU Xinwei, CHEN Haiping, LU Guangwu, XIE Xiuying</i> (92)
Application of economizer bypass on selective catalytic reduction system	<i>DONG Chen, WANG Xiaobing, NIU Guoping</i> (96)
Practicability of solving superheater oxides by chemical cleaning using recombination citric acid	<i>LIN WeiLi, DENG Yuqiang, ZHANG Xiangjin, CAO Jieyu, LIU Feng</i> (101)
Application of LSMW direct input method in SAP implementation	<i>MA Ruirui, DU Baohua, SHU Jin, LIU Zhenyu, SUN Jingchu</i> (104)
Diameter design for main drainage pipe in high pressure steam air preheater of a waste incineration power plant	<i>CHEN Songxuan, CHEN Nanxiang, ZHANG Wenkun, LIU Haiwei</i> (107)
Research and development of fieldbus device monitoring and management system	<i>WANG Chunli, GAO Pengli, HU Bo, GAO Haidong</i> (110)
Modification of secondary stage desuperheater for superheater in a 1 025 t/h boiler	<i>HUANG Junjie</i> (113)
Retrofitting for burning Zhundong coal for a 480 t/h boiler	<i>CHANG Jiaxing, YANG Zhongan, LI Shanghua, YAO Wei</i> (116)

RE LI FA DIAN



ISSN 1002-3364

03>

9 771002 336145

ISSN1002-3364

CN61-1111/TM

邮发代号：52-103

国内定价：16.00元

万方数据