

全国中文核心期刊
中国科技核心期刊

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

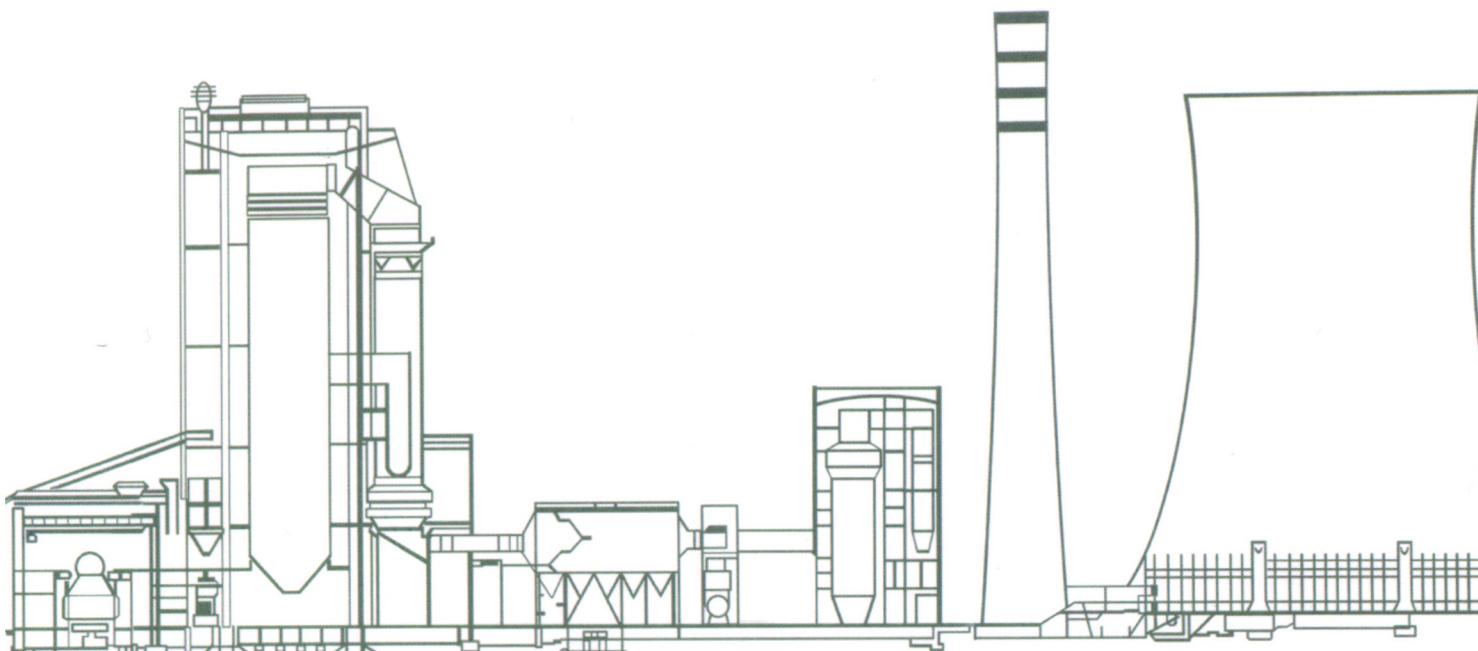
Thermal Power Generation

热力发电

2016.12

总第361期
1972年创刊
第45卷(卷终)

■ 主办：西安热工研究院有限公司 中国电机工程学会



CONTENTS

目 次

超净排放技术

- 01 燃煤 PM_{2.5} 和 Hg 控制技术现状及发展趋势 // 于敦喜, 温 泊
- 09 超低排放燃煤电厂引风机叶片硫酸盐沉积分析 // 王毅斌, 谭厚章, 萧嘉繁, 董 珉, 张俊杰
- 14 离子液体脱硫及再生性能实验 // 程广文, 王晓乾, 姚明宇, 杨成龙, 李 阳
- 19 超低排放形势下 SCR 脱硝系统运行存在问题与对策
// 王乐乐, 孔凡海, 何金亮, 方朝君, 杨 恒, 雷嗣远, 姚 燕, 杨晓宁
- 25 600 MW 燃煤机组大气污染物超低排放技术应用
// 李帅英, 武宝会, 牛国平, 张国富, 赵亚东, 姚 皓, 路晓锋, 黄钢英, 吕晨峰
- 30 高硫煤机组低低温省煤器 SO₃ 协同脱除试验研究 // 陆 军, 刘永强, 周 飞, 徐党旗, 温寒健

热能科学与研究

- 37 汽轮机汽封改造效果评价方法 // 付 泊, 宁 哲
- 45 CFB 锅炉散热损失测算及估算对锅炉效率的影响研究 // 焦同帅, 阎维平, 曹 颖, 陈 鑫, 王 华
- 50 汽轮机监视仪表系统校准方法 // 韦 宣, 史亚丽, 赵婷婷, 瞿丽莉, 杨海燕
- 56 燃气轮机状态维修决策模型及系统设计 // 万安平, 顾新建, 陈坚红, 盛德仁, 吴中飞
- 62 火电厂现场总线设备组态标准化研究 // 李晓博, 刘 茜
- 67 高温气冷堆主蒸汽管道双端断裂危害性分析方法 // 祝欣慰, 张桂英, 邵 杰, 钱秋裕

发电技术论坛

- 73 燃煤锅炉 SNCR 脱硝工艺关键技术 // 董 陈,赵树春,徐宏杰,王晓冰,常 磊,牛国平
78 基于 BP 神经网络的循环流化床锅炉生成 NO_x 质量浓度在线软测量 // 白建云,朱竹军,张培华
84 燃煤机组直接空冷系统控制算法比较分析 // 张 琛,姜 英
89 间接空冷机组冷端系统节能改造方案 // 吕 凯,雷彦荣,彭 鹏,张兴奎,叶 军,陈胜利,彭定云
95 600 MW 机组锅炉水冷壁区域还原性气氛影响因素分析 // 薛晓垒,俞胜捷,陈 敏,王小华
103 燃煤锅炉正压直吹式制粉系统温度分段控制 // 白 鹏,严响林,汪华剑,周虹光,熊 锋,房 凡,卢 琦
109 广义预测控制算法在 CFB 锅炉 SNCR 烟气脱硝系统中的应用 // 来长胜,白建云,印 江
114 指数预测模型和 Smith 预估器在 SCR 烟气脱硝控制系统中的应用 // 孙育红,侯玉婷,焦力刚,李尔堪
119 管道支吊架间距计算标准比较分析 // 高晓频,张方绮,安永尧

现场经验交流

- 124 600 MW 机组轴流风机静叶可调式改为动叶可调式方案研究
// 郑 金,程 雁,呼 军,孙大伟,常昌辉,李凯伦
130 基于流场多变的 SCR 脱硝系统喷氨优化调整试验 // 成明涛,钟 俊,廖永进,范军辉,高正阳
137 火电厂循环水排污水纳滤处理试验 // 李亚娟,申建汛,武忠全,许 鍾,黄 倩

[期刊基本参数]CN61-1111/TM*1972*m*A4*142*zh*P*¥16.00*4500*24*2016-12

THERMAL POWER GENERATION

CONTENTS

Ultra low emission control of pollutants

Current status and development of control technologies for PM _{2.5} and Hg during pulverized coal combustion	YU Dunxi, WEN Chang(1)
Analysis of sulfates deposition on induced draft fan blade in a coal-fired power plant with ultra-low emission	WANG Yibin, TAN Houzhang, XIAO Jiafan, DONG Kun, ZHANG Junjie(9)
Experiment about desulfurization and regeneration performance of ionic liquid	CHENG Guangwen, WANG Xiaoqian, YAO Mingyu, YANG Chenglong, LI Yang(14)
Difficulties and countermeasures of SCR denitration system operation in ultra low emission situation	WANG Lele, KONG Fanhai, HE Jinliang, FANG Zhaojun, YANG Xun, LEI Siyuan, YAO Yan, YANG Xiaoning(19)
Application of ultra-low emission technology in a 600 MW coal-fired unit	LI Shuaiying, WU Baohui, NIU Guoping, ZHANG Guofu, ZHAO Yadong, YAO Hao, LU Xiaofeng, HUANG Gangying, LÜ Chenfeng(25)
Experimental research on simultaneous removal of SO ₃ by low-low temperature economizer in units firing high-sulfur coal	LU Jun, LIU Yongqiang, ZHOU Fei, XU Dangqi, WEN Hanjian(30)

Thermal energy science research

Evaluation methods for turbine steam seal retrofitting	FU Chang, NING Zhe(37)
Influence of measurement and estimation of heat loss on efficiency of CFB boiler	JIAO Tongshuai, YAN Weiping, CAO Ying, CHEN Xin, WANG Hua(45)
System calibration method for turbine supervisory instrumentation system	WEI Xuan, SHI Yali, ZHAO Tingting, QU Lili, YANG Haiyan(50)
Research on condition based maintenance decision model and design of the system for gas turbine	WAN Anping, GU Xinjian, CHEN Jianhong, SHENG Deren, WU Zhongfei(56)
Configuration normalization of fieldbus device for thermal plants	LI Xiaobo, LIU Xi(62)
Harmfulness analysis method for double ended break in main steam pipe of high temperature gas-cooled reactor	ZHU Xinwei, ZHANG Guiying, SHAO Jie, QIAN Qiuyu(67)

Power generation technology forum

Key points of SNCR denitrification technology for coal fired boilers	DONG Chen, ZHAO Shuchun, XU Hongjie, WANG Xiaobing, CHANG Lei, NIU Guoping(73)
Online soft measurement of NO _x mass concentration for circulating fluidized bed boiler based on BP neural network	BAI Jianyun, ZHU Zhujun, ZHANG Peihua(78)
Comparative analysis on control algorithm for direct air cooling system of coal fired power plant	ZHANG Chen, JIANG Yin(84)
Study on energy-saving reconstruction plans for cold end system of indirect air cooling units	LÜ Kai, LEI Yanrong, PENG Peng, ZHANG Xingkui, YE Jun, CHEN Shengli, PENG Dingyun(89)
Influencing factors of reducing gas in water wall area of a 600 MW unit boiler	XUE Xiaolei, YU Shengjie, CHEN Min, WANG Xiaohua(95)
Temperature independent control for direct-firing pulverizing system	BAI Peng, YAN Xianglin, WANG Huajian, ZHOU Hongguang, XIONG Feng, FANG Fan, LU Qi(103)
Application of generalized predictive control algorithm in selective non-catalytic reduction flue gas denitrification system	LAI Changsheng, BAI Jianyun, YIN Jiang(109)
Application of exponential prediction model and Smith predictive controller in SCR denitration system	Sun Yuhong, Hou Yuting, Jiao Ligang, Li Erkan(114)
Comparative analysis of calculation standards for pipe hanger interval	GAO Xiaopin, ZHANG Fangqi, AN Yongyao(119)

Field experience exchange

Study and realization of transforming induced draft fans with adjustable stator blades into ones with adjustable rotor blades in a 600 MW unit	ZHENG Jin, CHENG Yan, HU Jun, SUN Dawei, CHANG Changhui, LI Kailun(124)
Optimization experiments of ammonia-injection in SCR denitrification system based on changeable flow field	CHENG Mingtao, ZHONG Jun, LIAO Yongjin, FAN Junhui, GAO Zhengyang(130)
Experimental study on circulating water treatment in coal-fired power plants using Nanofiltration process	LI Yajuan, SHEN Jianxun, WU Zhongquan, XU Zhen, HUANG Qian(137)

RELI FADIAN

热力发电

ISSN 1002-3364



9 771002 336169

中国标准连续出版物号: ISSN 1002-3364
万方数据 CN 61-1111/TM

邮发代号: 国外 M3261
国内 52-103

定价: 16.00 元/期
192.00元/年