THERMAL POWER GENERATION





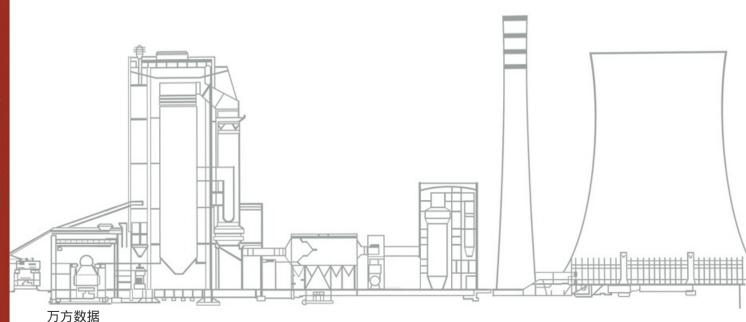




2020.7

总第404期 1972年创刊 第49卷

■ 主办:西安热工研究院有限公司 中国电机工程学会



CONTENTS

目 次

新能源发电技术专栏

- 01 综合能源系统潮流及最优潮流计算模型与方法综述//陈思宇, 柴庆宣, 李延松, 胡林献
- 13 蒙东地区适应新能源消纳的储能系统配置效果分析//肖 冰,吴晓丹,尹宏学,吴冠宇,孙 睿,周京华
- 21 含短期预测的光伏配电网智能调压策略//黄少雄, 王 璨, 孔庆竹, 马金辉, 张金金
- 28 含有光伏发电的分布式能量系统设备容量优化//白保华, 丁泽宇, 王 康, 卜令习, 侯宏娟
- 35 双馈风力发电机组轴系扭振特性研究//赵鹏程, 王剑钊
- 41 生物质焦炭颗粒气化过程模拟与分析//杨建蒙, 鲁许鳌, 徐 刚, 王洪远, 郭志城

热能科学研究

- 48 国内燃煤锅炉富氧燃烧技术进展//刘建华
- 55 烧结烟气气氛下煤燃烧特性热重实验研究//陶 欣,蔡润夏,陈陆剑,张 缦,杨海瑞,张守玉,吕俊复
- 61 空气掺混 CO₂ 对 CH₄ 燃烧特性影响//张高强, 张天清, 付忠广, 宋家胜, 高玉才
- 69 300 MW 电站煤粉锅炉大比例掺烧半焦的试验研究 //杨剑锋, 杜 进, 黄 璞, 黎海平, 陈一平, 申 明, 王志超, 刘 豪
- 77 燃煤机组耦合污泥发电对锅炉运行影响分析//周凌宇, 王一坤, 陈 钢, 成汭珅, 解 冰, 张广才, 柳宏刚
- 84 PVC、PS 与浒苔共热解过程分析及动力学研究//王华山, 王跃康, 张歆悦, 张天航, 刘 华, 王春生
- 93 声波测温在 W 形火焰锅炉中的应用//蒲学森,漆信东,杨 凯,敬大浩,杨庆峰,肖先勇
- 98 变湍流 Prandtl 数模型在垂直上升管内超临界水传热数值模拟中的应用 //周熙宏, 朱 超, 吴鹏举, 董 乐, 杨 冬
- 106 半壁受热管内插扭带的过冷流动沸腾传热特性数值模拟//周贺义, 嵇道峰, 张晓军
- 115 交叉螺纹型换热管数值模拟研究//李永华, 何 仑

发电技术论坛

- 123 电渗析浓缩多离子体系溶液数学模型研究//周明飞, 刘亚鹏, 王 璟, 毛 进, 胡特立, 刘贵栋
- 130 联合循环机组余热锅炉效率敏感性分析//华心果, 陈时熠, 曹启威, 向文国
- 137 脱硫工程应用喷嘴雾化特性试验研究//石振晶, 牛拥军, 王韶晖, 何育东, 雷鸣
- 142 采用梯次循环的二次再热机组再热压力优化//余 炎, 周代伟
- 147 汽包锅炉蓄热系数的理论计算与分析//马博洋
- 153 连续电再生阳离子交换器在线测量氢电导率技术研究 //刘 玮,田 利,苏 尧,韩小刚,陈裕忠,戴 鑫,张龙明,黄 茜
- 158 空气预热器实时监控系统堵塞可视化性能研究//邹 军, 夏继胜, 吴 凯, 李璟涛, 赵永权

[期刊基本参数]CN 61-1111/TM*1972*m*A4*162*zh*P*¥16.00*3500*23*2020-7

THERMAL POWER GENERATION

CONTENTS

Renewable energy power generation technology

renewable energy power generation technology
Models and methods of power flow and optimal power flow calculation for integrated energy system: a review
Configuration effect of energy storage system in Mengdong grid for new energy consumption
XIAO Bing, WU Xiaodan, YIN Hongxue, WU Guanyu, SUN Rui, ZHOU Jinghua(13) Intelligent voltage regulation strategy of photovoltaic distribution network considering short-term forecasting
HUANG Shaoxiong, WANG Can, KONG Qingzhu, MA Jinhui, ZHANG Jinjin(2)
Capacity optimization for equipment of distributed energy system with photovoltaic power generation subsystem BAI Baohua, DING Zeyu, WANG Kang, BU Lingxi, HOU Hongjuan(28)
Torsional vibration characteristics of double-feed wind turbine shafting
ZHAO Pengcheng, WANG Jianzhao (35)
Simulation and analysis of gasification process of biomass coke particles YANG Jianmeng, LU Xuao, XU Gang, WANG Hongyuan, GUO Zhicheng(4)
Thermal energy science research
Research and development of oxy-fuel combustion for coal-fired boiler in China LIU Jianhua(48
Experimental study on coal combustion characteristics in sintering flue gas atmosphere by thermogravimetry analysis
TAO Xin, CAI Runxia, CHEN Lujian, ZHANG Man, YANG Hairui, ZHANG Shouyu, LYU Junfu(55) Effect of blending CO ₂ into air on combustion characteristics of CH ₄
ZHANG Gaoqiang, ZHANG Tianqing, FU Zhongguang, SONG Jiasheng, GAO Yucai(61
Experimental research on large proportion co-firing of semi-coke in a 300 MW pulverized coal boiler
YANG Jianfeng, DU Jin, HUANG Pu, LI Haiping, CHEN Yiping, SHEN Ming, WANG Zhichao, LIU Hao(69
Effect of sludge-coal blending combustion on operation of coal-fired boiler ZHOU Lingyu, WANG Yikun, CHEN Gang, CHENG Ruishen, XIE Bing, ZHANG Guangcai, LIU Honggang (77)
Co-pyrolysis process and kinetics of PVC, PS and brassica
PU Xuesen, QI Xindong, YANG Kai, JING Dahao, YANG Qingfeng, XIAO Xianyong(93) Application of variable turbulent Prandtl number model in numerical simulation of supercritical water heat transfer in vertical upward tubes
ZHOU Xihong, ZHU Chao, WU Pengj ü, DONG Le, YANG Dong(98) Numerical simulation for subcooled flow boiling heat transfer characteristics in tube with twisted-tape insert under half heated wall
ZHOU Heyi, JI Daofeng, ZHANG Xiaojun(106
Numerical simulation of cross-threaded heat exchange tube
LI Yonghua, HE Lun(115
Power generation technology forum
Study on mathematical model of multi-ion system solution in electrodialysis concentration
ZHOU Mingfei, LIU Yapeng, WANG Jing, MAO Jin, HU Teli, LIU Guidong(123
Efficiency sensitivity analysis for HRSG of combined cycle unit HUA Xinguo, CHEN Shiyi, CAO Qiwei, XIANG Wenguo(130)
Experimental study on atomization characteristics of nozzles for desulfurization project SHI Zhenjing, NIU Yongjun, WANG Shaohui, HE Yudong, LEI Ming(137)
Optimization of reheat pressure for double-reheat unit using EC thermal system
Theoretical analysis and calculation of heat storage coefficient of drum boiler
Theoretical analysis and calculation of heat storage coefficient of drum boner
On-line cation conductivity measurement technology for continuous electro-regeneration cation exchanger
LIU Wei, TIAN Li, SU Yao, HAN Xiaogang, CHEN Yuzhong, DAI Xin, ZHANG Longming, HUANG Qian (153) Research on visual performance of real-time monitoring system for air preheater blocking
ZOU Jun, XIA Jisheng, WU Kai, LI Jingtao, ZHAO Yongquan(158
200 Juli, Alvasinelig, W. C. Kat, El aligido, Ella O Toligquan (150