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**专题综述**

[1] 潘峰,姜文东,宋刚,等.220kV新型双回路倒“Y”串输电塔电气及结构特性研究[J].华电技术, 2019,41(1):1-8.

PAN Feng,JIANG Wendong,SONG Gang,et al. Research on electrical and structural characteristics of a new type 220 kV inverted “Y” string transmission tower with double circuit lines[J]. Huadian Technology,2019,41(1): 1-8.

[2] 周涛,朱亮宇,陈杰,等.自然循环参数稳态变化计算研究[J].华电技术,2019,41(1):9-12.

ZHOU Tao,ZHU Liangyu,CHEN Jie,et al. Study on steady state change calculation of natural circulation parameters[J]. Huadian Technology, 2019,41(1):9-12.

[3]叶品勇,吴银福,邵宗卫,等.基于查表插值法的余弦函数离散值算法[J].华电技术,2019,41(1):13-16.

YE Pinyong,WU Yinfu,SHAO Zongwei,et al.Discrete value algorithm of cosine function based on table lookup interpolation[J]. Huadian Technology,2019,41(1):13-16

[4] 任尚洁,刘思靓.大型轴流转桨式水轮机桨叶操作机构有限元联合分析[J].华电技术,2019,41(1): 17-20,26.

REN Shangjie,LIU Siliang. Finite element conjoint analysis of the blade operating mechanism for large Kaplan turbine[J]. Huadian Technology,2019,41(1):17-20,26.

[5] 陈建国,张国民,马辉,等.光伏电站箱式变压器遮阳棚一体化设计及运行经济性分析[J].华电技术,2019,41(1):21-26.

CHEN Jianguo,ZHANG Guomin,MA Hui,et al. Economic analysis on design and operation of pad mounted transformer integrated with awning in photovoltaic station[J]. Huadian Technology,2019,41(1):21-26.

[6] 李晓飞,张赞,解建坤,等.基于反声降噪的风机管道流场优化与节能应用[J].华电技术,2019, 41(1):27-31,35.

LI Xiaofei,ZHANG Zan,XIE Jiankun,et al. Flow field optimization and energy saving based on anti-noise fan pipes[J]. Huadian Technology,201,41(1):27-31,35

[7] 刘沛奇,刘晓萌,朱跃.基于CFD的空气分级技术应用研究[J].华电技术,2019,41(1):32-35.

LIU Peiqi,LIU Xiaomeng,ZHU Yue. Application research of air staging technology based on CFD[J]. Huadian Technology,2019,41(1):32-35.

[8] 唐国栋,王忠宝,丁健,等. 燃煤电厂机组发电能力评测研究与设计[J].华电技术,2019,41(1): 36-39.

TANG Guodong,WANG Zhongbao,DING Jian,et al. Research and design of power generation capacity evaluation for coal-fired power plants[J]. Huadian Technology,2019,41(1):36-39.

**技术交流**

[9] 刘冠军.东汽X300P型汽轮机轴向间隙计算及胀差大原因分析[J].华电技术,2019,41(1):40-44.

LIU Guanjun. Axial clearance calculation and differential expansion analysis of Dongfang Turbine Company Limited X300P turbine[J]. Huadian Technology,2019,41(1):40-44.

[10] 夏钰,张松,陶其华.火电厂预除盐系统运行及清洗方式优化[J].华电技术,2019,41(1):45-49.

XIA Yu,ZHANG Song,TAO Qihua. Optimization of operational and cleaning method of pre-desalination system in thermal power plants[J]. Huadian Technology,2019,41(1):45-49

[11] 王亮茗.9FA燃机透平排气分散度高的原因分析及预防对策[J].华电技术,2019,41(1):50-54.

WANG Liangming. Cause analysis and preventive measures for high dispersion of 9FA turbine exhaust gas[J]. Huadian Technology,2019,41(1):50-54.

[12] 张云斌,柴海超,王欣荷.提高火力发电厂自动电压控制系统投入率的措施[J].华电技术, 2019,41(1):55-58,61.

ZHANG Yunbin,CHAI Haichao,WANG Xinhe. Measures to increase the operational rate of AVC system in thermal power plants[J]. Huadian Technology,2019,41(1):55-58,61.

[13] 李钰琼,万月英,黄佩兵.大型止水槽加工工艺简析[J].华电技术,2019,41(1):59-61.

LI Yuqiong,WAN Yueying,HUANG Peibing.Analysis on processing technology of large stop-water grooves[J]. Huadian Technology,2019,41(1):59-61.

[14] 却燕平,宁玉琴.燃煤机组定排乏汽回收系统可行性研究[J].华电技术,2019,41(1):62-63,66.

QUE Yanping,NING Yuqing. Feasibility research of periodical exhaust steam recovery system in coal-fired units[J]. Huadian Technology,2019,41(1):62-63,66.

[15] 于淑慧.高背压供热改造中给水泵汽轮机控制方式研究[J].华电技术,2019,41(1):64-66.

YU Shuhui. The research on turbine control mode of feed water pump in high back pressure heating reformation[J]. Huadian Technology,2019,41(1):64-66

[16]周琳琳,王科斌,余奕.发电机机端计量用电流互感器二次回路开路原因分析[J].华电技术,2019, 41(1):67-68,71.

ZHOU Linlin,WANG Kebin,YU Yi. Cause analysis on open circuit of CT secondary circuit for measuring at generator end[J]. Huadian Technology,2019,41(1):67-68,71.

[17]陈昊,俞立凡.基于系统运行状态的中文语音声光报警系统的开发[J].华电技术,2019,41(1):69-71.

CHEN Hao,YU Lifan. Development of Chinese voice and visual alarm based on system state in service[J]. Huadian Technology,2019,41(1):69-71.

[18] 冯光明.除氧器进汽逆止阀失效暗藏机组跳闸风险[J].华电技术,2019,41(1):72-73.

FENG Guangming. Unit tripping risk analysis hidden behind the failure of deaerator admission check valve[J]. Huadian Technology,2019,41(1):72-73.

**节能与环保**

[19] 刘彬,邵长暖.1000MW超超临界机组邻机加热启动技术应用[J].华电技术,2019,41(1):74-76.

LIU Bin,SHAO Changnuan. Application of adjacent boiler heating start up technology for 1000MW ultra supercritical units[J]. Huadian Technology,2019,41(1):74-76.

[20] 刘忠轩,宁新宇,王亚顺,等.电站锅炉褐煤掺烧现状及其影响研究分析[J].华电技术,2019,41(1):77-79.

LIU Zhongxuan,NING Xinyu,WANG Yashun,et al. Research and analysis on boilers status quo of lignite mixed burning and its effect[J]. Huadian Technology,2019,41(1):77-79.

**2019年41卷2期**

**研究与开发**

[1]张晓瑞,纪陵,檀庭方,等.智能变电站二次设备在线故障运维平台架构研究[J].华电技术,2019, 41(2):1-5,13.

ZHANG Xiaorui,JI Ling,TAN Tingfang,et al.Intelligent substation secondary equipment online fault operation and maintenance platform architecture research[J]. Huadian Technology,2019,41(2):1-5,13

[2] 单华鹏,顾建嵘.GE 9E燃机无刷励磁系统的国产化改造[J].华电技术,2019,41(2):6-9,17.

SHAN Huapeng,GU Jianrong. Localization of GE 9E gas turbine brushless excitation system[J]. Huadian Technology,2019,41(2):6-9,17.

[3] 于洋,刘青华,周灿.火力发电厂水分析实验室间检测能力比对活动探讨[J].华电技术,2019, 41(2):10-13.

YU Yang,LIU Qinghua,ZHOU Can. Discussion on detection capabilities comparison of water analysis laboratories in thermal power plants[J]. Huadian Technology,2019,41(2):10-13.

[4]张航,王振岳,陈星.基于智能电表的低压电网故障预判系统[J].华电技术,2019,41(2): 14-17.

ZHANG Hang,WANG Zhenyue,CHEN Xing.Fault prediction system for low voltage power grid based on smart meters[J]. Huadian Technology,2019,41(2):14-17.

[5]张勇刚,王悦,姚亮,等.一种适用于T接线路电流差动保护装置的研制[J].华电技术,2019,41(2): 18-21.

ZHANG Yonggang,WANG Yue,YAO Liang,et al. Research on a differential current protection device for T connection lines[J]. Huadian Technology,2019,41(2):18-21

[6] 徐金英,胡明庭.基于Matlab的水库年径流序列变化周期及趋势性分析[J].华电技术,2019,41(2): 22-25.

XU Jinying,HU Mingting. Analysis of variation period and trend of annual runoff series based on Matlab[J]. Huadian Technology,2019,41(2):22-25.

[7] 秦凯,高志勇.一种配电终端残压模块方案的设计与实现[J].华电技术,2019,41(2): 26-27,31.

QIN Kai,GAO Zhiyong. Design and implementation of a residual voltage module scheme for electricity distribution terminals[J]. Huadian Technology,2019,41(2):26-27,31.

**技术交流**

[8] 柯浩,李振梁,王曦.超临界锅炉高温过热器爆管原因分析及对策[J].华电技术,2019,41(2):28-31.

KE Hao,LI Zhenliang,WANG Xi.Cause analysis and countermeasures for tube burst of high-temperature superheater in supercritical boiler[J]. Huadian Technology,2019,41(2):28-31.

[9] 侯家绪,周书康,李艳军.某电厂低压转子末二级叶片开裂原因分析[J].华电技术,2019,41(2):32-35.

HOU Jiaxu,ZHOU Shukang,LI Yanjun. Cause analysis of secondary blade cracking at the end of low pressure rotor in a power plant[J]. Huadian Technology,2019,41(2):32-35

[10] 王林,刘金秋,夏晓涛.某450MW燃机冷再三通裂纹原因分析与处理[J].华电技术,2019,41(2): 36-38.

WANG Lin,LIU Jinqiu,XIA Xiaotao. Cracking cause analysis and treatment of cold reheated steam T piece of a 450MW gas turbine[J]. Huadian Technology,2019,41(2):36-38.

[11]侯晓宁,阿不都克里木·阿布来提.超临界间冷机组高背压供热技术的应用分析[J].华电技术, 2019, 41(2): 39-42.

HOU Xiaoning,Abu Dhabi Krimu·ABU DHATI. Application analysis on high back pressure heating technology for supercritical intercooling unit[J]. Huadian Technology,2019,41(2):39-42.

[12]胡德春.膜袋灌浆技术在水电站厂房渗漏处理中的应用[J].华电技术,2019,41(2):43-45.

HU Dechun. Application of film bag grouting technology in leakage treatment of Hydropower Plant[J]. Huadian Technology,2019,41(2):43-45.

[13]宋馨. 汽轮机轴封蒸汽温度波动原因分析与解决方案[J].华电技术,2019,41(2):46-48,51.

SONG Xin. Analysis and solution for temperature fluctuation of turbine shaft seal steam[J]. Huadian Technology,2019,41(2):46-48,51.

[14]王治辉,宋志强,王钢锋,等. 铜川照金电厂汽轮机汽流激振的原因分析及处理[J].华电技术, 2019, 41(2): 49-51.

WANG Zhihui,SONG Zhiqiang,WANG Gangfeng,et al. Cause analysis and treatment of steam flow excited vibration of steam turbine in Tongchuan Zhaojin Power Plant[J]. Huadian Technology,2019,41(2):49-51.

[15]蔡芃,陈奎,吕霞.变负荷下再热汽温低的原因及调节对策[J].华电技术,2019,41(2):52-54.

CAI Peng,CHEN Kui,LYU Xia. Reasons and regulation measures of low reheat steam temperature under variable load[J]. Huadian Technology,2019,41(2):52-54.

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[16] 游松林,罗洪辉,王振,等.燃煤电厂SCR脱硝系统氨逃逸率控制技术研究[J].华电技术,2019, 41(2):55-59.

YOU Songlin,LUO Honghui, WANG Zhen,et al.Study on ammonia escape rate control technology of SCR denitrification system in coal-fired power plant[J].Huadian Technology,2019,41(2):55-59.

[17]李亚敏,郭廷晖.反渗透浓水与再生废水用于循环水系统的可行性探究[J].华电技术,2019,41(2): 60-64.

LI Yamin,GUO Tinghui.Research on the feasibility of reusing reverse osmosis concentrated water and reclaimed wastewater into circulating water system[J].Huadian Technology,2019,41(2):60-64.

[18] 张方,修正平,方津.低低温省煤器经济性计算及应用[J].华电技术,2019,41(2):65-68.

ZHANG Fang,XIU Zhengping,FANG Jin.Economy calculation and application of low-low temperature economizer[J].Huadian Technology,2019,41(2):65-68.

[19] 任彬.600MW超临界机组锅炉省煤器分级优化改造[J].华电技术,2019,41(2):69-72.

REN Bin.Classification and optimizing retrofit of economizer for 600MW supercritical boilers[J].Huadian Technology,2019,41(2):69-72.

[20] 晋银佳,李壮,唐国瑞,等.废水零排放下燃煤电厂脱硫废水水量的确定[J].华电技术,2019, 41(2):73-75.

JIN Yinjia,LI Zhuang,TANG Guorui,et al.Determination of desulfurization wastewater amount of coal-fired plants under zero liquid emission situations[J].Huadian Technology,2019,41(2):73-75.

[21] 张松奇,杨勇,许涛.基于DCS的布袋除尘器脉冲阀顺序控制改造分析[J].华电技术,2019,41(2): 76-77.

ZHANG Songqi,YANG Yong,XU Tao.Transformation of pulse valve sequence control system of bag filter based on DCS[J].Huadian Technology,2019,41(2):76-77.

[22] 石旭.300MW发电机组湿式静电除尘技术SO3排放控制研究[J].华电技术,2019,41(2):78-80.

SHI Xu.Research on SO3 emission control of 300MW generators by WESP technology[J].Huadian Technology,2019,41(2):78-80.

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**专题综述**

[1]江婷,胡永锋,宋洪涛,等.楼宇型分布式能源系统SCR脱硝数值模拟研究[J].华电技术,2019, 41(3):1-7.

JIANG Ting,HU Yongfeng,SONG Hongtao,et al.Numerical simulation research on SCR denitration in a building type distributed energy system[J].Huadian Technology,2019,41(3):1-7.

[2] 顾志祥,孙思宇,孔飞,等.燃气冷热电分布式能源系统设计优化综述[J].华电技术,2019,41(3): 8-13,42.

GU Zhixiang,SUN Siyu,KONG Fei,et al.Design optimization summary of CCHP distributed energy system driven by gas[J].Huadian Technology,2019,41(3):8-13,42.

[3] 刘晓立.燃气内燃机分布式能源系统烟气脱硝关键技术研究[J].华电技术,2019,41(3):14-17,22.

LIU Xiaoli.Research on the key technology of flue gas denitration for distributed energy system gas internal combustion engine[J].Huadian Technology,2019,41(3):14-17,22.

[4] 陈建国,张国民.分布式电站光伏汇流箱布置优化策略[J].华电技术,2019,41(3):18-22.

CHEN Jianguo,ZHANG Guomin.Optimization strategy for locating of combiner box for distributed photovoltaic power station[J].Huadian Technology,2019,41(3):18-22.

[5] 杜炬虎,刘静.园区燃气分布式能源站微电网结构解析[J].华电技术,2019,41(3): 23-25,28.

DU Juhu,LIU Jing.Analysis of microgrid structure of a gas distributed energy station in a park[J].Huadian Technology,2019,41(3):23-25,28.

[6] 艾绍伟,何刚,滕卓男,等.储能电站数据可靠性测试分析[J].华电技术,2019,41(3):26-28.

AI Shaowei,HE Gang,TENG Zhuonan.Reliability test and analysis of data from energy storage power station[J].Huadian Technology,2019,41(3):26-28.

[7] 张大佳,杨鹏.6F.01燃气轮机液压油系统调试故障分析及处理[J].华电技术,2019,41(3):29-31.

ZHANG Dajia,YANG Peng.Debugging fault analysis and treatment on 6F.01 gas turbine hydraulic oil system[J].Huadian Technology,2019,41(3):29-31.

[8] 王晨希.分布式能源电站SID-2AF微机同期装置并网试验[J].华电技术,2019,41(3):32-34.

WANG Chenxi.Grid connected test of SID-2AF microcomputer synchronization device for distributed energy power station[J].Huadian Technology,2019,41(3):32-34.

**研究与开发**

[9]张天海,于国强,殳建军,等.超超临界二次再热机组高压加热器系统控制策略研究[J].华电技术, 2019,41(3):35-39.

ZHANG Tianhai,YU Guoqiang,SHU Jianjun,et al.Research on control strategy of high-pressure heater system for ultra-supercritical secondary reheat unit[J].Huadian Technology,2019,41(3):35-39.

[10]刘忠轩,宁新宇,程石.生物酶处理对煤炭存储热值及堆煤温度影响的试验研究[J].华电技术, 2019,41(3):40-42.

LIU Zhongxuan,NING Xinyu,CHENG Shi.Experimental study on the effect of biological enzyme treatment on coal storage calorific value and coal pile temperature[J].Huadian Technology,2019,41(3):40-42.

[11]王志坤,王杰,王爱明.火电厂燃煤全自动制样机性能试验方案研究[J].华电技术,2019,41(3):43-45,48.

WANG Zhikun,WANG Jie,WANG Aiming.Study on performance test on automatic sampling machine in thermal power plant[J].Huadian Technology,2019,41(3):43-45,48.

[12] 高锦,杨薇.超临界直流炉酸洗和酸洗废液处理技术分析[J].华电技术,2019,41(3):49-52.

GAO Jin,YANG Wei.Analysis on pickling and pickling waste liquid treatment technology for supercritical once-through boiler[J].Huadian Technology,2019,41(3):49-52.

**技术交流**

[13]黄奎,孟周银,叶文波.水轮发电机组调速油管路水击的产生、防范与处理[J].华电技术,2019,41(3): 46-48.

HUANG Kui,MENG Zhouyin,YE Wenbo.Production, prevention and treatment of water hammer in governor oil pipeline of hydroelectric generating unit[J].Huadian Technology,2019,41(3):46-48.

[14] 万立明,苏朋,周长文.某600MW机组锅炉减温器混合管缺陷分析及优化改造[J].华电技术,2019, 41(3):53-55.

WAN Liming,SU Peng,ZHOU Changwen.Defect analysis and optimization of a 600MW unit boiler desuperheater mixing tube[J].Huadian Technology,2019,41(3):53-55.

[15]尚力阳,张智勇,季艳茹,等.某台车式启闭机车轮打滑原因分析及解决方案[J].华电技术,2019, 41(3):56-58.

SHANG Liyang,ZHANG Zhiyong,JI Yanru,et al.Cause analysis and solution for bogie wheel skidding of a platform hoist[J].Huadian Technology,2019,41(3):56-58.

[16]王敏,王杰.600MW超临界机组凝汽器真空度低的原因分析及治理[J].华电技术,2019,41(3):59-61.

WANG Min,WANG Jie.Cause analysis and treatment of low vacuum of condenser in 660MW supercritical unit[J].Huadian Technology,2019,41(3):59-61.

[17] 赵光锋,余亮.PG9171E型燃气轮机交流润滑油泵控制逻辑优化[J].华电技术,2019,41(3):62-63.

ZHAO Guangfeng,YU Liang.Control logic optimization of PG9171E gas turbine AC lubricating oil pump[J]. Huadian Technology,2019,41(3):62-63.

[18] 王涛,俞春林,顾锦书.基于产品识别策略的电动汽车充电桩工业设计研究[J].华电技术,2019, 41(3):64-66.

WANG Tao,YU Chunlin,GU Jinshu.Industrial design of electric vehicle charging pile based on product identification strategy[J]. Huadian Technology,2019,41(3):64-66.

[19] 种西虎,李广伟,靳军.1000MW机组超低排放改造后引风机失速原因分析及预防措施[J].华电技术,2019,41(3):67-70.

CHONG Xihu,LI Guangwei,JIN Jun.Cause analysis and prevention on induced draft fan stalling after 1000MW unit ultra-low emission transformation[J].Huadian Technology,2019,41(3):67-70.

[20] 李超.降低桃源水电站综合厂用电率的措施[J].华电技术,2019,41(3):71-72,75.

LI Chao.Measure analysis on reducing the comprehensive service power rate of Taoyuan Hydropower Plant[J].Huadian Technology,2019,41(3):71-72,75.

[21] 张继冰,乔小三.基于原煤排放因子缺省值和实测值的碳排放计算及比较[J].华电技术,2019, 41(3):73-75.

ZHANG Jibing,QIAO Xiaosan.Calculation and comparison of carbon emissions based on the default value and measured value of raw coal emission factor[J].Huadian Technology,2019,41(3):73-75.

**新能源**

[22] 周建朋,王明介.随坡安装山地光伏电站阵列间距的计算[J].华电技术,2019,41(3):76-80.

ZHOU Jianpeng,WANG Mingjie.Calculation of the array spacing of mountain PV power plants installed with slopes[J].Huadian Technology,2019,41(3):76-80.

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**研究与开发**

[1]宋战兵,范佩佩,魏江,等.蒸汽管道刚性支吊架应力分析[J].华电技术,2019,41(4):1-5,13.

SONG Zhanbing,FAN Peipei,WEI Jiang,et al.Stress analysis on rigid hanger of steam pipeline[J].Huadian Technology,2019,41(4):1-5,13.

[2] 陈水林,张晓蕾,吴顺.660MW超临界机组滑压运行优化试验与分析[J].华电技术,2019,41(4):6-9,18.

CHEN Shuilin,ZHANG Xiaolei,WU Shun.Analysis and optimization test for 660MW supercritical unit under sliding pressure operation[J].Huadian Technology,2019,41(4):6-9,18.

1. 曹寅翔,李俊达.配电主站数据流跨区交互通道的设计与实现[J].华电技术,2019,41(4):10-13.

CAO Yinxiang,LI Junda.Design and implementation of cross area interactive channels for data stream in the master station of distribution system[J].Huadian Technology,2019,41(4):10-13.

[4] 王瑞彪,郑文彬.智能变电站SCD文件版本的可视化管控研究[J].华电技术,2019,41(4):14-18.

WANG Ruibiao,ZHENG Wenbin.Research on visual control of smart substation SCD file version[J].Huadian Technology,2019,41(4):14-18.

[5] 崔殿彬.发变组保护装置界面&通信管理单元的设计与实现[J].华电技术,2019,41(4):19-23.

CUI Dianbin.Design and implementation of generator/transformer protection device MMI and communication management unit[J].Huadian Technology,2019,41(4):19-23.

[6]葛举生.600MW超临界W型火焰锅炉一次风机RB试验与优化[J].华电技术,2019,41(4): 24-28.

GE Jusheng.RB test and optimization of primary air fan in 600MW supercritical W flame boiler[J].Huadian Technology,2019,41(4):24-28.

[7] 冯泽磊,吴美凤.基于大数据平台的火电机组实时运行状态监测[J].华电技术,2019,41(4): 29-32,37.

FENG Zelei,WU Meifeng.Real time operation monitoring of thermal power units based on big data platform[J].Huadian Technology,2019,41(4):29-32,37.

[8] 康丰,齐以年,张玮,等.中性点不接地系统对距离保护的影响分析[J].华电技术,2019,41(4):33-37.

KANG Feng,QI Yinian,ZHANG Wei,et al.Influence analysis of ungrounded neutral system on distance protection[J].Huadian Technology,2019,41(4):33-37.

[9] 石小飞,王鹏阁. PZQ1400平头塔机回转机构防摇摆措施[J].华电技术,2019,41(4):38-40.

SHI Xiaofei,WANG Pengge.Anti-swaying measures for PZQ1400 flat-top tower crane slewing mechanism[J].Huadian Technology,2019,41(4):38-40.

**新能源**

[10] 陈宣龙,刘三举,杨涛.生物质气化合成气对燃煤机组负荷的影响试验[J].华电技术,2019,41(4): 41-46,62.

CHEN Xuanlong,LIU Sanju,YANG Tao.Experiment on the influence of biomass gasification syngas on the load of coal-fired power plant[J].Huadian Technology,2019,41(4):41-46,62.

[11] 顾志祥,刘洁,孔飞,等.楼宇型分布式能源站空调水平衡影响分析[J].华电技术,2019,41(4): 47-50.

GU Zhixiang,LIU Jie,KONG Fei,et al.Analysis on influence of air conditioning water balance in building type distributed energy station[J].Huadian Technology,2019,41(4):47-50.

[12] 王春林,袁云,施俞安,等.山地光伏项目阵列间距计算方法研究[J].华电技术,2019,41(4):51-55.

WANG Chunlin,YUAN Yun,SHI Yu’an,et al.Calculation method of array spacing for mountain PV project[J].Huadian Technology,2019,41(4):51-55.

[13] 吴少璟,周长友,陈彬,等.固定可调支架系统调节策略改进分析[J].华电技术,2019,41(4):56-58.

WU Shaojing,ZHOU Changyou,CHEN Bin,et al.Analysis on improved adjustment strategy for adjustable fixed bracket system[J].Huadian Technology,2019,41(4):56-58.

**研究与开发**

[14] 孙茴,徐雪,刘书君,等.有机朗肯循环发电系统蒸发器热力设计与试验验证[J].华电技术,2019, 41(4):59-63.

SUN Hui,XU Xue,LIU Shujun,et al.Thermal design and test verification of the evaporator for ORC power generating system[J].Huadian Technology,2019,41(4):59-62.

[15] 张成国,王建.火力发电厂输煤系统粉尘综合治理技术研究[J].华电技术,2019,41(4):63-65.

ZHANG Chengguo,WANG Jian.Research on comprehensive dust control technology of coal handling system in thermal power plants[J].Huadian Technology,2019,41(4):63-65.

[16] 贾利峰.邻机加热技术在1000MW超超临界机组的应用[J].华电技术,2019,41(4):66-67,73.

JIA Lifeng.Application of adjacent boiler heating technology in 1000MW ultra supercritical thermal power units[J].Huadian Technology,2019,41(4):66-67,73.

**技术交流**

[17]蒋小峰,钮志峰.390H型发电机轴电流异常情况分析处理[J].华电技术,2019,41(4):68-70.

JIANG Xiaofeng, NIU Zhifeng.Analysis and treatment of 390H generator shaft current abnormity[J].Huadian Technology,2019,41(4):68-70.

[18] 李强.淄博热电WESP水系统优化实践[J].华电技术,2019,41(4):71-73.

LI Qiang.Zibo Thermoelectric WESP water system optimization[J].Huadian Technology,2019,41(4):71-73.

[19]王小军.630MW超临界锅炉启动初期给水流量控制的探索[J].华电技术,2019,41(4):74-75,80.

WANG Xiaojun.Exploration on feed water flow control at initial stage of startup of a 600MW supercritical boiler[J].Huadian Technology,2019,41(4):74-75,80.

[20] 阎涛,贺胜利.造价精益化管理在火电基建工程中的落实[J].华电技术,2019,41(4):76-80.

YAN Tao,HE Shengli.Implementation of lean cost management in thermal power infrastructure projects[J].Huadian Technology,2019,41(4):76-80.

**2019年41卷5期**

**研究与开发**

[1]李金锋,周正一,罗子湛,等.淡水下泄对海水脱硫有效离子影响的数模研究[J].华电技术,2019, 41(5):1-7.

LI Jinfeng,LUO Zhengyi,LUO Zizhan.Study on the influence of fresh water drainage on seawater desulphurization system[J].Huadian Technology,2019,41(5):1-7.

[2] 李旭海,肖扬名,赵雪瑞,等.物联网技术在EPC工程管理中的应用研究[J].华电技术,2019, 41(5):8-12.

LI Xuhai,XIAO Yangming,ZHAO Xuerui,et al.Research on the application of IOT technology in EPC engineering management[J].Huadian Technology,2019,41(5):8-12.

[3] 王强.HZY-1脱硫添加剂在燃煤电厂湿法脱硫系统中的探究试验[J].华电技术,2019,41(5):13-16,21.

WANG Qiang.Exploratory test of  desulfurization additive HZY-1 in wet desulfurization system of coal-fired power plants[J].Huadian Technology,2019,41(5):13-16,21.

[4] 王周君,黎星华,唐立军,等.中速磨煤机入口一次风混流及均流技术研究[J].华电技术,2019, 41(5):17-21.

WANG Zhoujun,LI Xinghua,TANG Lijun,et al.Study on flow mixing and equalizing technique of primary air at inlet of medium speed coal mills[J].Huadian Technology,2019,41(5):17-21.

[5] 王哲,郭晓,行武,等.变压器过励磁五次谐波特征及机制的研究[J].华电技术,2019,41(5):22-27,33.

WANG Zhe,GUO Xiao,XING Wu,et al.Research on characteristics and mechanism of transformer fifth harmonic under overexcitation condition[J].Huadian Technology,2019,41(5):22-27,33.

[6] 吴顺,陈水林,王联海.700MW超临界锅炉引风机改造可行性分析[J].华电技术,2019,41(5):28-33.

WU Shun,CHEN Shuilin,WANG Lianhai.Feasibility analysis of 700MW supercritical boiler induced draft fan renovation[J].Huadian Technology,2019,41(5):28-33.

[7]王承亮.火电厂磨煤机钢球装载量与电机电流的关系分析[J].华电技术,2019,41(5): 34-39,45.

WANG Chengliang.Relationship between the charge of balls and electric machine current of coal mill in thermal power plants[J].Huadian Technology,2019,41(5):34-39,45.

[8] 陈栋,李玉平,陈琦,等.基于准双端预制连接的就地化保护实施方案[J].华电技术,2019,41(5): 40-45.

CHEN Dong,LI Yuping,CHEN Qi,et al.Implementation scheme for local protection outdoor installation based on quasi two terminal prefabricated connection[J].Huadian Technology,2019,41(5):40-45.

**节能与环保**

[9] 江婷,徐静静,马琴,等.分布式能源系统低温烟气余热利用经济性分析[J].华电技术,2019, 41(5):46-49.

JIANG Ting,XU Jingjing,MA Qin,et al.Economic analysis of low temperature flue gas waste heat utilization in distributed energy system[J].Huadian Technology,2019,41(5):46-49.

[10] 赵小强,李绍刚,韩丽娜.2x1000MW机组除灰系统节能改造[J].华电技术,2019,41(5):50-51,55.

ZHAO Xiaoqiang,LI Shaogang,HAN Lina.Energy saving retrofit of 2×1000MW unit ash handling system[J].Huadian Technology,2019,41(5):50-51,55.

[11] 谈智玲,彭歌亮,陈全喜,等.燃煤电厂烟尘超低排放协同脱硫废水零排放改造实践探索[J].华电技术,2019,41(5):52-55.

TAN Zhiling,PENG Geliang,CHEN Quanxi,et al.Exploration on gas flue ultra-low emission and desulfurization wastewater zero discharge transformation in coal-fired power plants[J].Huadian Technology,2019,41(5):52-55.

[12] 何畅宇,周林,黎兆锋.300MW燃煤机组锅炉油枪改造后节油效益分析[J].华电技术,2019, 41(5):56-58.

HE Changyu,ZHOU Lin,LI Zhaofeng.Analysis of fuel saving efficiency after oil gun reformation of 300MW coal-fired unit[J].Huadian Technology,2019,41(5):56-58.

[13] 王仁雷,衡世权,李海洋,等.高效微孔膜陶瓷过滤技术在电厂含煤废水处理中的应用[J].华电技术,2019,41(5):59-61.

WANG Renlei,HENG Shiquan,LI Haiyang,et al.Application analysis of high efficiency microporous membrane ceramic filtration technology in coal contained wastewater treatment in power plants[J].Huadian Technology,2019,41(5):59-61.

[14] 邓如勇.散货码头卸船机干、水雾抑尘系统设计及应用[J].华电技术,2019,41(5):62-64,72.

DENG Ruyong.Design and application of dry and water mist dust suppression system for ship unloader on bulk terminal[J].Huadian Technology,2019,41(5):62-64,72.

**技术交流**

[15] 朱重阳.基于MK64平台的配网终端多回路录波方案[J].华电技术,2019,41(5):65-68.

ZHU Chongyang.Multi-loop recording scheme for distribution network terminals based on MK64 platform[J].Huadian Technology,2019,41(5):65-68.

[16]吴昌浩,曹景芳.低速钢球磨煤机减速机齿轮断齿故障诊断及分析[J].华电技术,2019,41(5):69-72.

WU Changhao,CAO Jingfang.Fault diagnosis and analysis of gear breaking of low speed ball-tube mill speed reducer[J].Huadian Technology,2019,41(5):69-72.

[17] 万志勇.S109FA燃气-蒸汽联合循环机组RB时汽轮机不卸载的处理及防范措施[J].华电技术, 2019,41(5):73-75.

WAN Zhiyong.Treatment and preventive measures for an unloading steam turbine during the RB of an S109FA gas steam combined cycle unit[J].Huadian Technology,2019,41(5):73-75.

[18] 周兴宏.GE PG9171E重型燃机轴振超限的原因及处理[J].华电技术, 2019,41(5):76-77,80.

ZHOU Xinghong.Causes and treatment of over-limit bearing vibration of GE PG9171E heavy-duty gas turbine[J].Huadian Technology,2019,41(5):76-77,80.

[19] 贤建伟,代术建.300MW亚临界汽轮机快速结垢原因分析及处理[J].华电技术,2019,41(5): 78-80.

XIAN Jianwei,DAI Shujian.Analysis and treatment for fast scaling in 300MW subcritical steam turbine[J].Huadian Technology,2019,41(5):78-80.

**2019年41卷6期**

**研究与开发**

[1] 蔡雨晴,杨平,沈丛奇,等.单相受热管集总参数模型优化及现代控制工程应用[J].华电技术, 2019,41(6):1-5,22.

CAI Yuqing,YANG Ping,SHEN Congqi,et al.Optimization of lumped parameter model of single phase heat pipe and its application in modern control engineering[J].Huadian Technology,2019,41(6):1-5,22.

[2] 万立明,梅振锋,李德波,等.中速磨煤机入口紧凑型圆形一次风道流场均流技术研究[J].华电技术,2019,41(6):6-12.

WAN Liming,MEI Zhenfeng,LI Debo,et al.Study on uniform flow technology of compact circular primary air duct at medium speed mill inlet[J].Huadian Technology,2019,41(6):6-12.

[3] 胡美玲,赵雪瑞,赵耀丽.基于以太网的水电站卷扬式启闭机控制系统的设计[J].华电技术,2019, 41(6):13-16,32.

HU Meiling,ZHAO Xuerui,ZHAO Yaoli.Design of winch hoist control systems for hydropower stations based on Ethernet[J].Huadian Technology,2019,41(6):13-16,32.

[4] 梁鹏威,康振全,黄浩然,等.基于ANSYS的齿轮模态特性研究[J].华电技术,2019,41(6):17-22.

LIANG Pengwei,KANG Zhenquan,HUANG Haoran,et al.Research on the characteristics of gear modals based on ANSYS[J].Huadian Technology,2019,41(6):17-22.

[5] 张巍,周国鹏,汪洋,等.一起220kV主变压器保护装置发TV异常告警的原因分析[J].华电技术, 2019,41(6):23-26,37.

ZHANG Wei,ZHOU Guopeng,WANG Yang,et al.Analysis of an abnormal alarm of TV for a 220kV main transformer protection[J].Huadian Technology,2019,41(6):23-26,37.

[6] 牛腾赟.某电厂发电设备可靠性建模及状态预测[J].华电技术,2019,41(6):27-32.

NIU Tengyun.Reliability modeling and state prediction of generating equipment in a power plant[J].Huadian Technology,2019,41(6):27-32.

[7] 谢坤,赵谦,程成,等.具有异常分析功能的通用型数字量输入式合并单元[J].华电技术,2019, 41(6):33-37.

XIE Kun,ZHAO Qian,CHENG Cheng,et al.Universal digital input merging unit with fault analysis function[J].Huadian Technology,2019,41(6):33-37.

**节能与环保**

[8] 苏攀,沈阳,于鹏峰,等. 正平衡供电煤耗升高原因分析及煤耗修正计算[J].华电技术,2019, 41(6):38-41.

SU Pan,SHEN Yang,YU Pengfeng,et al.Cause analysis and correction calculation on the positive balance coal consumption for electricity supply[J].Huadian Technology,2019,41(6):38-41.

[9] 王晓华,谈志林,宫建,等.燃煤电厂氟塑料换热系统的技术经济分析[J].华电技术,2019,41(6): 42-45.

WANG Xiaohua,TAN Zhilin,GONG Jian,et al.Techno-economic analysis of fluorine plastic heat exchange system in coal-fired power plants[J].Huadian Technology,2019,41(6):42-45.

[10] 徐克涛,何永兵,裴煜坤,等.某燃煤电厂SCR脱硝装置堵塞问题分析及改进[J].华电技术,2019, 41(6):46-49,75.

XU Ketao,HE Yongbing,PEI Yukun,et al.Analysis and improvement of SCR denitrification devices blockage in a coal-fired power plant[J].Huadian Technology,2019,41(6):46-49,75.

[11] 叶罗,吴俊东,陈显.低温省煤器系统运行实践分析[J].华电技术,2019,41(6):50-52,56.

YE Luo,WU Jundong,CHEN Xian.Operation analysis of low temperature economizer system[J].Huadian Technology,2019,41(6):50-52,56.

[12] 靳军,种西虎,李广伟.空气预热器排烟温度偏差分析[J].华电技术,2019,41(6):53-56.

JIN Jun,CHONG Xihu,LI Guangwei.Analysis of temperature deviation of exhaust flue gas in air preheater[J].Huadian Technology,2019,41(6):53-56.

**技术交流**

[13] 马亮.基于主汽压动态特性的机组协调预测控制研究[J].华电技术,2019,41(6):57-60.

MA Liang.Research on predictive coordinated control strategy based on main steam dynamic characteristics[J].Huadian Technology,2019,41(6):57-60.

[14] 杨亚龙,李春庆,王永,等.沉管过河施工中供热管道的安全性验算分析[J].华电技术,2019, 41(6):61-63.

YANG Yalong,LI Chunqing,WANG Yong,et al.Verification and analyzing the safety of heating pipeline in river crossing project[J].Huadian Technology,2019,41(6):61-63.

[15] 邱冬,高彦生,陈向阳.LM系列航改型燃气轮机作为黑启动电源的探讨[J].华电技术,2019, 41(6):64-66,71.

QIU Dong,GAO Yansheng,CHEN Xiangyang.Discussion on LM series aero-derivative gas turbine as black starting power source[J].Huadian Technology,2019,41(6):64-66,71.

[16] 邓有纬,盛玉林,严凡华.输煤程控系统PLC与入炉煤皮带秤之间通信的实现[J].华电技术,2019, 41(6):67-71.

DENG Youwei,SHENG Yulin,YAN Fanhua.Application of communication between PLC of coal conveying control system and belt scale for coale as fire[J].Huadian Technology,2019,41(6):67-71.

[17] 刘会平.某热电厂玻璃钢烟囱内筒的铺层设计及现场制作[J].华电技术,2019,41(6):72-75.

LIU Huiping.Design and manufacture of FRP chimney liner in a coal-fired power plant[J].Huadian Technology,2019,41(6):72-75.

[18] 王钢.一种提高锅炉二次风量测量准确性的反吹扫方案设计[J].华电技术,2019,41(6):76-77,80.

WANG Gang.Design of anti-purge device for improving the accuracy of boiler secondary air quantity measurement[J].Huadian Technology,2019,41(6):76-77,80.

[19] 王江,薛铁柱,魏龙.无人机盘煤在火力发电企业燃料管理中的应用[J].华电技术,2019,41(6): 78-80.

WANG Jiang,XUE Tiezhu,WEI Long.Application of UAV inventory of coal in fuel management of thermal power plant[J].Huadian Technology,2019,41(6):78-80.

**2019年41卷7期**

**研究与开发**

1. 徐金晖,郭鹏,宋鹏,等.风电机组偏航系统静态偏差分析与研究[J].华电技术,2019,41(7):1-5,9.

XU Jinhui, GUO Peng, SONG Peng,et al.Analysis and research on static deviation of the yaw system of wind turbines[J]. Huadian Technology, 2019, 41(7): 1-5,9.

1. 童航,李国敏,王宝玉,等.燃气内燃机排气流量和排气能量估算方法[J].华电技术,2019,41(7):6-9.

TONG Hang,LI Guomin,WANG Baoyu,et al.Estimation method for exhaust gas flow and energy of gas internal combustion engine[J]. Huadian Technology, 2019,41(7):6-9.

1. 李一泉,焦邵麟,曾耿晖,等.基于故障信息系统的试验故障报告识别方法及软件设计[J].华电技术,2019,41(7):10-14.

LI Yiquan, JIAO Shaolin, ZENG Genghui,et al.Identification method and software design of testing failure report based on fault information system[J].Huadian Technology,2019,41(7):10-14.

1. 王晓华,张海,胡汉宇,等.高效电源除尘技术应用效果分析 [J].华电技术,2019,41(7):15-17.

WANG Xiaohua,ZHANG Hai,HU Hanyu,et al.Analysis on application effect of dust removal technology with high efficiency power supply[J].Huadian Technology,2019,41(7):15-17.

1. 王礼鹏,绳冉冉,安敬学,等.1000MW电站锅炉布袋除尘器入口烟气流场优化数值模拟[J].华电技术,2019,41(7):18-23.

WANG Lipeng, SHENG Ranran, AN Jingxue,et al.Numerical simulation of flue gas flow field at the bag filter inlet of 1000MW boiler[J].Huadian Technology,2019,41(7):18-23.

1. 王晓斌.带式输送机头部双向清扫器设计及应用[J].华电技术,2019,41(07):24-26,30.

WANG Xiaobin.Design and application of two-way cleaning device for the head of belt conveyor[J].Huadian Technology,2019,41(7):24-26,30.

1. 李海洋,王仁雷,尤良洲,等.溶解氧对主蒸汽溶解氢表测量影响试验研究[J].华电技术,2019,41(7):27-30.

LI Haiyang,WANG Renlei,YOU Liangzhou,et al.Experimental study of dissolved oxygen's effect on dissolved hydrogen analyzer of the main steam[J].Huadian Technology,2019,41(7):27-30.

**新能源**

[8]胡湘涛,张晋磊,向宗原.风力发电机组高于切出风速的降容增效优化运行[J].华电技术,2019,41(7):31-33.

HU Xiangtao,ZHANG Jinlei,XIANG Zongyuan.Derating and efficiency optimization operation of wind turbines running above cut-out wind speed[J].Huadian Technology,2019,41(7):31-33.

[9]胡森,袁静.国外风电EPC项目设计前移工作简析[J].华电技术,2019,41(7):34-36,39.

HU Sen,YUAN Jing. Brief analysis on the advanced work of EPC design for foreign wind power projects[J].Huadian Technology,2019,41(7):34-36,39.

[10]王明.内蒙古自治区村级光伏扶贫电站系统设计及优化[J].华电技术,2019,41(7):37-39.

WANG Ming.Design and optimization of village-level PV poverty alleviation power station in Inner Mongolia Autonomous Region[J].Huadian Technology,2019,41(7):37-39.

**节能与环保**

[11]金纬.660 MW汽轮发电机组真空泵节能改造[J].华电技术,2019,41(7):40-42.

JIN Wei,Energy-saving transformation of vacuum pump in 660MW steam turbine generator set[J]. Huadian Technology, 2019,41(7):40-42.

[12]张志国,邓瑞霞,郝同杰.燃气电厂水平衡测试及节水建议[J].华电技术,2019,41(7):43-45.

ZHANG Zhiguo,DENG Ruixia,HAO Tongjie.Water balance test and water-saving recommendations for gas-fired power plants[J].Huadian Technology,2019,41(7):43-45.

**技术交流**

[13]张俊伟.NG-M701F-R型余热锅炉高压过热器爆管原因分析及解决办法[J].华电技术,2019,41(7):46-49.

ZHANG Junwei.Cause analysis and solution for tube burst in high-pressure superheater of NG-M701 F-R heat recovery boiler[J].Huadian Technology,2019,41(7):46-49.

[14]钱锡琳.凝汽器不锈钢管的结垢分析及综合治理[J].华电技术,2019,41(7):50-53.

QIAN Xilin.Scale analysis and comprehensive treatment of condenser stainless steel tubes[J].Huadian Technology,2019,41(7):50-53.

[15]陆永亚,李航宇,金龙.大直径双辐板滑轮制造工艺研究[J].华电技术,2019,41(7):54-57.

LU Yongya,LI Hangyu,JIN Long.Study on manufacturing technology of large diameter double-spoke pulley[J].华电技术,2019,41(7):54-57.

[16]钮志峰,程途.氢冷发电机吸附式氢气干燥装置运行维护探讨[J].华电技术,2019,41(07):58-60.

NIU Zhifeng,CHENG Tu.Discussion on operation and maintenance of hydrogen-cooling generator adsorption type hydrogen drying device[J].Huadian Technology,2019,41(7):58-60.

[17]盛戈,谷源泉,吴祥,等.卡体挂体式机械抓梁存在的问题及改进方案简析[J].华电技术,2019,41(7):61-63.

SHENG Ge,GU Yuanquan, WU Xiang,et al.Analyzing the existing problems and improvement scheme of suspended mechanical lifting beam[J].Huadian Technology,2019,41(7):61-63.

[18]陈啸,徐威,刘利等.某600 MW机组汽轮机异常振动的分析及处理[J].华电技术,2019,41(7):64-66.

CHEN Xiao,XU Wei, LIU Li,et al. Analysis and treatment of abnormal vibration of a steam turbine of 600 MW unit[J]..Huadian Technology,2019,41(7):64-66.

[19]周志彬,常亮.水溶纸对主蒸汽品质的影响和分析[J].华电技术,2019,41(7):67-69.

ZHOU Zhibin,CHANG Liang.Influence and analysis of water soluble paper on main steam quality[J].Huadian Technology,2019,41(7):67-69.

[20]王学礼.1000 MW超超临界锅炉过热器爆管原因分析及防范措施[J].华电技术,2019,41(7):70-72,76.

WANG Xueli.Reasons analysis for tube blasting and preventive measures for superheater of 1000MW supercritical boiler[J].Huadian Technology,2019,41(7):70-72,76.

[21]邢军,何超,舒忠平.移动式声波吹灰器660MW机组锅炉省煤器的应用[J].华电技术,2019,41(7):73-76.

XING Jun,HE Chao,SHU Zhongping.Application of mobile sonic soot blowers in economizer of 660MW boiler[J].Huadian Technology,2019,41(7):73-76.

[22]杨玉柱,许伟.某电厂AGC调节异常原因分析与防范措施[J].华电技术,2019,41(07):77-79.

YANG Yuzhu,XU Wei.Cause analysis and preventive measures of abnormal regulation of AGC in a power plant[J].Huadian Technology,2019,41(7):77-79.

**2019年41卷8期**

**专题综述**

1. 胡小夫,汪洋,田立,等.中高温SOFC/MGT联合发电技术研究进展[J].华电技术,2019,41(8):1-5.

HU Xiaofu,WANG Yang TIAN Li,et al.Progress in intermediate and high temperature SOFC/MGT combined power generation technology [J].Huadian Technology,2019,41(8):1-5

1. 丁阳,刘志敏,徐婷婷. DLN1.0+与LEC-NextGen燃烧系统对比[J].华电技术,2019,41(8):6-10.

DING Yang,LIU Zhimin,XU Tingting.Comparison of DLN1.0+and LEC-NextGen combustion system[J].Huadian Technology,2019,41(8):6-10.

1. 白云山,田鑫,刘志敏.燃气轮机进气过滤系统滤网更换周期优化模型研究[J].华电技术,2019,41(8):11-14.

BAI Yunshan,TIAN Xin,LIU Zhimin.Research on update interval optimization model of gas turbine inlet filtration system[J].Huadian Technology,2019,41(8):11-14.

1. 毛杨军. LM航改型燃机发电机组联轴器的选型与安装[J].华电技术,2019,41(8):15-19.

MAO Yangjun.Model selection and installation of coupling for the LM series aero-derivative gas turbine generator[J].Huadian Technology,2019,41(8):15-19.

1. 刁培滨,邓亚男.燃气分布式能源站智能生产管理系统开发及应用[J].华电技术,2019,41(8):20-23.

DIAO Peibin,DENG Yanan.Development and application of intelligent production management system for gas distributed power station[J].Huadian Technology,2019,41(8):20-23.

1. 宋馨.V94.3A型燃气轮机点火失败原因分析及解决方案[J].华电技术,2019,41(8):24-26.

SUN Xin.Cause analysis and solution for ignition failure of V94.3A gas turbine[J].Huadian Technology,2019,41(8):24-26.

**研究与开发**

1. 解加盈,郭鹏.基于多变量选择的深度神经网络功率曲线建模[J].华电技术,2019,41(8)27-31.

XIE Jiaying,GUO Peng.Deep neural network modeling on power curve based on multi-variable selection[J].Huadian Technology,2019,41(8)27-31. 

1. 王周君,黎星华,唐立军,等.矩形截面直角弯管内置导流板的优化研究[J].华电技术,2019,41(8)：32-37.

WANG Zhoujun,LI Xinghu,TANG Lijun,et al.Optimization research on deflectors installed in right-angle bend tube with rectangular section[J].Huadian Technology,2019,41(8)：32-37.

1. 朱宇聪,包明磊,李玉平,等.注入式定子接地保护现场试验、分析及建议[J].华电技术,2019,41(8)：38-43.

ZHU Yucong,BAO Minglei,LI Yuping,et al.Field test, analysis and recommendations for injection stator grounding protection[J].Huadian Technology,2019,41(8)：38-43.

1. 成天乐,王善立. 海南省大容量核电机组并网适应性研究[J].华电技术,2019,41(8)：44-48.

CHENG Tianle,WANG Shanli.Study on the grid connection adaptability of large capacity nuclear power units in Hainan[J].Huadian Technology,2019,41(8)：44-48.

1. 冯宇,赵进科,赵雪瑞,等.物料仓仓门开闭机构的设计和动力学仿真[J].华电技术,2019,41(8)：49-52.

FENG Yu,ZHAO Jinke,ZHAO Xuerui,et al. Design and dynamic simulation of opening-closing mechanism of material bin gate[J].Huadian Technology, 2019, 41(8): 49-52.

**节能与环保**

1. 张爱军,晋银佳,喻江,等.电化学技术处理火电厂循环水的试验研究[J].华电技术,2019,41(8)：53-56.

ZHANG Aijun,JIN Yinjia,YU Jiang,et al. Experimental study on electrochemical technology for circulating water treatment in thermal power plant[J].Huadian Technology,2019,41(8):53-56.

1. 密大奎,张传艮.脱硝系统氨逃逸分析仪测量技术存在的问题及优化方案[J].华电技术,2019,41(8)：57-60.

MI Dakui,ZHANG Chuangen.Existing problems and optimization solutions of denitration ammonia escape analyzer measurement technology[J].Huadian Technology, 2019,41(8): 57-60.

1. 朱雪平.超低排放改造后环保设备出现的问题及处理[J].华电技术,2019,41(8)：61-64.

ZHU Xueping.Problems and countermeasures of environmental protection equipment after ultra-low emission transformation[J].Huadian Technology,2019,41(8)：61-64.

1. 李盛杰,温亮.核反应堆设置安全壳过滤排放系统的必要性分析[J].华电技术,2019,41(8)：65-69.

LI Shengjie,WEN Liang. Necessity analysis of filtered containment venting system of nuclear reactor[J].Huadian Technology,2019,41(8): 65-69.

**技术交流**

1. 徐江,梁海山,薛小宇.1000MW二次再热机组凝结水泵深度变频改造优化[J].华电技术,2019,41(8)：70-73.

XU Jiang,LIANG Haishan,XUE Xiaoyu.Optimization of deep frequency conversion transformation for condensate pump in 1000MW secondary reheat unit[J].Huadian Technology,41(8): 70-73.

1. 邓辉.高温再热器出口联箱管座角焊缝开裂原因分析[J].华电技术,2019,41(8)：74-77.

DENG Hui.Cause analysis on the fillet weld cracking of the outlet header socket of high-temperature reheater[J].Huadian Technology,41(8): 74-77.

1. 陆定康,周伟.工业水泵振动异常分析和处理 [J].华电技术,2019,41(8)：78-80.

LU Dingkang,ZHOU Wei. Analysis and treatment of abnormal vibration of industrial water pump[J].Huadian Technology,41(8):78-80.

**2019年41卷9期**

**研究开发**

1. 刘志敏,丁阳,徐婷婷,等.燃气轮机燃烧压力脉动与测量关键技术研究[J].华电技术,2019,41(9):1-5.

LIU Zhimin,DING Yang,XU Tingting,et al.Research on gas turbine combustion pressure fluctuation and the key technologies for its measurement[J].Huadian Technology,2019,41(9):1-5.

1. 熊远南,汪永威,陈英武.电除尘器进口烟箱结构设计对气流分布的影响及数值模拟优化[J].华电技术,2019,41(9):6-11.

XIONG Yuannan,WANG Yongwei,CHEN Yingwu.Effect of smoke box structure at ESP inlet on gas flow distribution and optimization based on numerical simulation[J].Huadian Technology,2019,41(9):6-11.

1. 张其良,马大卫,陈中元,等.超低排放改造后SCR脱硝出口NOX分布和氨逃逸异常分析[J].华电技术,2019,41(9):12-17.

ZHANG Qiliang,MA Dawei,CHEN Zhongyuan,et al.Analysis on uneven NOx distribution and high-concentration escaped ammonia at SCR outlet after ultra-low transformation[J].Huadian Technology,2019,41(9):12-17.

1. 刘明,朱伟雄,丁勇能,等.启机阶段高温蒸汽管道弯头温度场及热应力分析[J].华电技术,2019,41(9):18-21.

LIU Ming,ZHU Weixiong,DING Yongneng,et al.Analysis of temperature field and thermal stress of high-temperature steam pipe elbow in start-up stage[J].Huadian Technology,2019,41(9):18-21.

1. 夏怀鹏,王争荣,汪洋,等.四边形塔架式钢烟囱结构的设计研究[J].华电技术,2019,41(9):22-24,28.

XIA Huaipeng,WANG Zhengrong,WANG Yang,et al.Study on the structure design of quadrangle tower-frame steel chimney[J]..Huadian Technology,2019,41(9):22-24,28.

1. 贡文明,李炜,李明.燃气-蒸汽联合循环机组在线性能试验研究[J].华电技术,2019,41(9):25-28.

GONG Wenming,LI Wei,LI Ming.Research on online performance test of gas-steam combined cycle units[J].Huadian Technology,2019,41(9):25-28.

1. 陈浩,徐军锋.600MW超临界机组配汽特性对轴系振动的影响[J].华电技术,2019,41(9):29-32.

CHEN Hao, XU Junfeng.Influence of 600MW supercritical unit steam distribution characteristics on shaft vibration[J].Huadian Technology,2019,41(9):29-32.

1. 朱晨,徐要伟,于淑敏.水电站潜没式弧形闸门结构应力测试与分析[J].华电技术,2019,41(9):33-35.

ZHU Chen,XU Yaowei,YU Shumin.Stress test and analysis of submerged radial gate structure of hydropower station[J].Huadian Technology,2019,41(9):33-35.

1. 杨小东,尚力阳,范素香,等.斜拉式漂浮物拦捞装置的设计与应用[J].华电技术,2019,41(9):36-38.

YANG Xiaodong,SHANG Liyang,FAN Suxiang,et al.Design and application of cable-stayed device for trapping and raising floating trash[J].Huadian Technology,2019,41(9):36-38.

1. 赵中华,艾绍伟,冯昊,等.虚实结合的配电主站测试平台设计[J].华电技术,2019,41(9):39-41.

ZHAO Zhonghua,AI Shaowei,FENG Hao,et al.Design of test platform for power distribution master station combining virtuality and reality[J].Huadian Technology,2019,41(9):39-41.

**节能与环保**

1. 彭歌亮,王钧为,谈志林,等.超净电袋复合除尘器滤料的选择与分析[J].华电技术,2019,41(9):42-44.

PENG Geliang,WANG Junwei,TAN Zhilin,et al.Selection and analysis for filtering media of ultra-clean electrostatic fabric precipitators[J].Huadian Technology,2019,41(9):42-44.

1. 赵林林.350MW机组脱硫氧化风机节能优化试验[J].华电技术,2019,41(9):45-48,52.

ZHAO Linlin.Experiment on energy saving optimization test of desulfurization and oxidation fans for 350MW units[J].Huadian Technology,2019,41(9):45-48,52.

1. 杨翮,刘芳芳,席琳.液柱喷射与雾化喷淋协同脱硫节能方案探讨[J].华电技术,2019,41(9):49-52.

YANG He,LIU Fangfang,XI Lin.Discussion on energy-saving scheme for cooperative desulfurization with liquid column injection and atomization spray[J].Huadian Technology,2019,41(9):49-52.

1. 马亮,付冉.火电厂脱硫分散控制系统信号干扰故障分析[J].华电技术,2019,41(9):53-55.

MA Liang,FU Ran.Fault analysis on desulfurization DCS signal interference in a thermal power plant[J].Huadian Technology,2019,41(9):53-55.

1. 杨海勇,熊显巍,冉桂林.中间仓储式热风送粉贫煤锅炉低氮燃烧器改造[J].华电技术,2019,41(9):56-58,62.

YANG Haiyong,XIONG Xianwei,RAN Guilin.Retrofit of low-nitrogen burner in lean coal boiler with storage-type hot air pulverized coal feeding system[J].Huadian Technology,2019,41(9):56-58,62.

**技术交流**

1. 白常青.阳煤西上庄2x660MW热电机组实现功能的分析[J].华电技术,2019,41(9):59-62.

BAI Changqing.Analysis of FCB function in Yangmei Xishangzhuang 2x660MW thermal power units[J].Huadian Technology,2019,41(9):59-62.

1. 张波.导纳型失磁保护与励磁装置低励限制的整定配合[J].华电技术,2019,41(9):63-66,69.

ZHANG Bo.Setting coordination of field loss protection with admittance and excitation device low excitation limit[J]Huadian Technology,2019,41(9):63-66,69.

1. 李济川.大中型燃煤发电厂上煤系统降出力去冗余可行性研究[J].华电技术,2019,41(9):67-69.

LI Jichuan.Feasibility research on redundancy removal and derating of coal handling systems in large and medium coal-fired power plants[J].Huadian Technology,2019,41(9):67-69.

1. 刘忠源.9F级燃气蒸汽联合循环机组供热改造[J].华电技术,2019,41(9):70-71,75.

LIU Zhongyuan.Heat-supply modification for 9F gas-steam combined cycle units[J].Huadian Technology,2019,41(9):70-71,75.

1. 李戈,朱海宝,乔立捷,等.火电厂在役机组WC9铸钢安全阀质量评估与性能分析[J].华电技术,2019,41(9):72-75.

LI Ge,ZHU Haibao,QIAO Lijie,et al.Quality evaluation and performance analysis of WC9 cast steel safety valve for in-service units in a thermal power plant[J]Huadian Technology,2019,41(9):72-75.

1. 宋宝玉,岳浩.670MW机组空气预热器漏风控制系统优化[J].华电技术,2019,41(9):76-77.

SONG Baoyu,YUE Hao.Optimization of air preheater leakage control system in 670MW unit[J].Huadian Technology,2019,41(9):76-77.

1. 梁国柱.UN5000励磁系统PT慢熔判断功能的改造方案[J].华电技术,2019,41(9):78-80.

LIANG Guozhu.Transformation methods for PT slow-melting judgment of UN5000 excitation system[J].Huadian Technology,2019,41(9):78-80.

**2019年41卷10期**

**专题综述**

1. 王争荣,汪洋,夏怀鹏,等.1000 MW燃煤机组SCR脱硝系统喷氨精细化改造[J].华电技术,2019,41(10):1-7.

WANG Zhengrong,WANG Yang,XIA Huaipeng,et al. Delicacy control on ammonia injection for SCR denitration system in a 1000 MW coal-fired unit [J].Huadian Technology,2019,41(10):1-7.

1. 郝正,胡小夫,王云,等.火电机组SCR脱硝系统精准喷氨优化研究[J].华电技术,2019,41(10):8-11,4.

HAO Zheng,HU Xiaofu,WANG Yun,et al. Research on precise ammonia injection retrofit for SCR denitration systems in thermal powers[J].Huadian Technology, 2019, 41(10):8-11,4.

1. 胡小夫,汪洋,王云,等.燃煤电站SCR脱硝系统运行优化[J].华电技术,2019,41(10):12-15,52.

HU Xiaofu,WANG Yang,WANG Yun,et al. Operation optimization an SCR denitration system in a coal-fired power plant [J].Huadian Technology, 2019, 41(10): 12-15,52.

1. 晋银佳,张爱军,郑长乐.某1000MW燃煤机组脱硫废水烟道雾化蒸发系统设计[J].华电技术,2019,41(10):16-19,59.

JIN Yinjia,ZHANG Aijun,ZHENG Changle.Design of a desulfurization wastewater evaporation system in flue gas duct for a 1000MW coal-fired power plant[J].Huadian Technology, 2019, 41(10): 16-19,59.

1. 卢成志,高林涛,林骞.火力发电厂环保岛供电方案分析[J].华电技术,2019,41(10):20-23.

LU Chengzhi,GAO Lintao,LIN Qian.Analysis of a power supply scheme for SRS in a thermal power plant[J].Huadian Technology, 2019, 41(10): 20-23.

**研究与开发**

1. 詹国敏,肖遥,张弘,等.基于三端口虚拟MPPT的直流耦合储能变换器控制策略研究[J].华电技术,2019,41(10):24-29.

ZHAN Guomin,XIAO Yao,ZHANG Hong,et al.Research on control strategy for DC-coupled energy storage converters based on three-port virtual MPPT[J].Huadian Technology, 2019, 41(10): 24-29.

1. 蔡亮亮,龚世敏,唐斌,等.智能变电站虚拟后备测控单元自动投退及无缝切换技术研究[J].华电技术,2019,41(10):30-34.

CAI Liangliang,GONG Shimin,TANG Bin,et al.Research on automatic and seamless switching technology for virtual backup measurement and control units in smart substations[J].Huadian Technology, 2019, 41(10): 30-34

1. 郭晓宁,尹剑仑,庞杰锋,等.一种通用保护装置显示终端的设计与实现[J].华电技术,2019,41(10):35-38.

GUO Xiaoning,YIN Jianlun, PANG Jiefeng,et al.Design and implementation of a universal display terminal for protection devices[J].Huadian Technology,2019,41(10):35-38

1. 辛志波.超超临界直流炉给水控制策略研究与设计[J].华电技术,2019,41(10):39-43.

XIN Zhibo.Research and design of feedwater control strategy for an ultra-supercritical once-through boiler[J].Huadian Technology,2019,41(10):39-43.

1. 胡婷,王为林.高强度气囊在运输风电塔筒钢基桩系统中的设计[J].华电技术,2019,41(10):44-47.

HU Ting,WANG Weilin.Design of high-strength airbag for transportation of wind power tower steel pile system[J].Huadian Technology,2019,41(10):44-47.

1. 雷海,史田明,徐宜桢.鉴江高岭拦河闸2×250 kN固定卷扬式启闭机设计[J].华电技术,2019,41(10):48-52.

LEI Hai,SHI Tianming,XU Yizhen.Design for 2×250kN fixed winch hoists for the Jianjiang Gaoling Sluice[J].Huadian Technology,2019,41(10):48-52.

**技术交流**

1. 葛鹏,封坤,程佳其,等.天然气在管道内燃烧事故分析[J].华电技术,2019,41(10):53-59.

GE Peng, FENG Kun, CHENG Jiaqi,et al.Analysis of natural gas combustion accidents in pipelines[J].Huadian Technology,2019,41(10):53-59.

1. 马仁婷.全容量给水泵汽轮机保护系统可靠性分析及优化措施[J].华电技术,2019,41(10):60-63.

MA Renting.Reliability analysis and optimization scheme of full-capacity feedwater pump turbine protection system[J].Huadian Technology,2019,41(10):60-63.

1. 杨小龙,于国强,史毅越,等.1000MW超超临界机组给水泵自动并泵逻辑设计及应用[J].华电技术,2019,41(10):64-67,71.

YANG Xiaolong,YU Guoqiang,SHI Yiyue,et al.Application and design of automatic paralleling logic for feedwater pumps in 1000MW units[J]..Huadian Technology,41(10):64-67,71.

1. 宋金育,耿克普,李航宇.构皮滩水电站升船机重力式闸门锁定装置受力分析及加固处理[J].华电技术,2019,41(10):68-71.

SONG Jinyu,GENG Kepu,LI Hangyu,et al.Stress analysis and reinforcement schemes for the gravity type gate locking device of the ship lift in Goupitan Hydropower Station[J].Huadian Technology,2019,41(10):68-71.

1. 李云鹏,施具飞,王冉.浆液循环泵电机冷却方式的优化分析[J].华电技术,2019,41(10):72-75.

LI Yunpeng,SHI Jufei, WANG Ran.Optimization analysis on cooling methods for the motor of a slurry circulating pump[J].Huadian Technology,2019,41(10):72-75.

1. 罗云,薛荣波,晁俊凯,等.660MW间接空冷机组小汽轮机改造[J].华电技术,2019,41(10):76-80.

LUO Yun,XUE Rongbo,CHAO Junkai,et al.Transformation of a small steam turbine for a 660MW indirect air cooling unit[J].Huadian Technology,2019,41(10):76-80.

**2019年41卷11期**

**专题综述**

1. 韩峰,张衍国,严矫平,等.综合能源服务业务和合作模式[J].华电技术,2019,41(11):1-4.

HAN Feng,ZHANG Yanguo,YAN Jiaoping,et al.Integrated energy service and cooperation modes[J].Huadian Technology,2019,41(11):1-4.

1. 杨晟,王浩淼,才思远,等.面向电力营销精益化的综合能源服务研究[J].华电技术,2019,41(11):5-8,21.

YANG Sheng,WANG Haomiao,CAI Siyuan,et al.Research on integrated energy service in lean marketing of power[J].Huadian Technology,2019,41(11):5-8,21.

1. 刁培滨,王宇帆.国内天然气发展评述及走势分析[J].华电技术,2019,41(11):9-11,25.

DIAO Peibin,WANG Yufan.Natural gas development review and trend analysis in China[J].Huadian Technology,2019,41(11):9-11,25.

1. 郭乐,张丹丹.几种基于可靠性指标的容量支持机制电力市场分析[J].华电技术,2019,41(11):12-17,45.

GUO Le ,ZHANG Dandan.Analysis on several capacity support mechanisms in electric market based on reliability index[J].Huadian Technology,2019,41(11):12-17,45.

1. 陈伟.孟加拉国及东南亚国家综合能源服务现状与未来发展趋势[J].华电技术,2019,41(11):18-21.

CHEN Wei.Status and future trends of integrated energy services in Bangladesh and Southeast Asian countries[J].Huadian Technology,2019,41(11):18-21.

1. 杨晓巳,陶新磊.综合能源技术路线研究[J].华电技术,2019,41(11):22-25.

YANG Xiaosi, TAO Xinlei.Research on integrated energy technical route[J].Huadian Technology,2019,41(11):22-25.

1. 孙思宇,于成琪,孙涛,等.冷热电三联供分布式能源系统研究进展[J].华电技术,2019,41(11):26-31,56.

SUN Siyu,YU Chengqi,SUN Tao,et al.Advance in study on CCHP distributed energy system[J].Huadian Technology,2019,41(11):26-31,56.

1. 王剑利,张金柱,吉金芳,等.生物质燃煤耦合发电技术现状及建议[J].华电技术,2019,41(11):32-35.

WANG Jianli, ZHANG Jinzhu, JI Jinfang,et al.Current status and suggestions on biomass-coal coupled power generation technology[J].Huadian Technology,2019,41(11):32-35.

1. 徐静静,康慧,张瑞寒.清洁燃煤供热与能源的综合利用[J].华电技术,2019,41(11):36-39,75.

XU Jingjing,KANG Hui, ZHANG Ruihan.Clean coal heat-supply and integrated energy utilization[J].Huadian Technology,2019,41(11):36-39,75.

1. 王佳梓,王桂玲."云+端"大数据驱动的预见性电厂设备维护[J].华电技术,2019,41(11):40-45.

WANG Jiazi,WANG Guiling.Predictive maintenance of power plant equipment driven by"cloud+client"big data[J].Huadian Technology,2019,41(11):40-45.

**研究与开发**

1. 孙振宇,沈明忠.基于工业厂区的多能互补系统在微能源网的应用[J].华电技术,2019,41(11):46-48.

SUN Zhenyu,SHEN Mingzhong.Application of multi-energy complementary system in micro-energy network of an industrial plant[J].Huadian Technology,2019,41(11):46-48.

1. 祖航,王秋颖.环境温度及负荷率对燃气-蒸汽联合循环热电联产机组性能的影响[J].华电技术,2019,41(11):49-52.

ZU Hang,WANG Qiuying.Effects of ambient temperature and load ratio on performance of gas-steam combined cycle cogeneration units[J].Huadian Technology,2019,41(11):49-52.

1. 赵龙,岳义博.大型储能电站智能辅助调试系统的设计及应用[J].华电技术,2019,41(11):53-56.

ZHAO Long,YUE Yibo.Design and application of intelligent auxiliary debugging system for large-scale energy storage power station[J].Huadian Technology,2019,41(11):53-56.

1. 陈向阳,史炜.航改型燃气轮机在工业园区综合能源系统中的应用探讨[J].华电技术,2019,41(11):57-61.

CHEN Xiangyang,SHI Wei.Study of aero-derivative gas turbines applied in industrial park integrated energy systems[J].Huadian Technology,2019,41(11):57-61.

1. 胡贵良.金沙江上游川藏段可再生能源基地能源利用模式探索[J].华电技术,2019,41(11):62-65.

HU Guiliang.Exploration on utilization models for renewable energy of Sichuan-Tibet section in the Jinsha River upper reaches[J].Huadian Technology,2019,41(11):62-65.

**技术交流**

1. 韩买良.水务投资与综合能源耦合利用及发展[J].华电技术,2019,41(11):66-69.

HAN Mailiang.Water investment and integrated energy coupling utilization and development[J].Huadian Technology,2019,41(11):66-69.

1. 任新生.火电企业供热生产集中化、智能化的改造实践[J].华电技术,2019,41(11):70-75.

REN Xinsheng.Practice of centralizing and intelligent transformation on heating supply of thermal power enterprises[J].Huadian Technology,2019,41(11):70-75.

1. 李艳红,王兴兴.光储充综合能源系统设计及优化[J].华电技术,2019,41(11):76-79.

LI Yanhong,WANG Xingxing.Design and optimization of solar energy storage and charging in integrated energy systems[J].Huadian Technology,2019,41(11):76-79.

1. 周金顺,鞠明.燃气分布式能源站智能化建设思考[J].华电技术,2019,41(11):80-84.

ZHOU Jinshun,JU Ming.Reflect on intelligent construction of gas-fired distributed energy stations[J].Huadian Technology,2019,41(11):80-84.

**2019年41卷12期**

**专题综述**

1. 马大卫,王正风,何军,等.安徽煤电深度调峰下机组煤耗和污染物排放特征研究[J].华电技术,2019,41(12):1-7,15.

MA Dawei,WANG Zhengfeng,HE Jun,et al.Study on the coal consumption and pollutant discharge characteristics of coal-fired units participating in deep peak-regulating operation in Anhui Provincet[J].Huadian Technology, 41(12): 1-7.

1. 商永强,赵永椿.磁性吸附剂脱汞机理及技术研究进展[J].华电技术,2019,41(12):8-15.

SHANG Yongqiang,ZHAO Yongchun.Mechanism and technology development of magnetic adsorbent for mercury removal[J].Huadian Technology, 41(12): 8-15.

1. 张建通,王佃昌,王继伦.新型烟气超低排放技术研究与应用[J].华电技术,2019,41(12):16-19,24.

ZHANG Jiantong,WANG Dianchang,WANG Jilun. Research and application of new flue gas ultra-low emission technology[J].Huadian Technology, 41(12): 16-19,24.

1. 秦一鸣,韩同江,王冠宇,等.流场模拟在SCR蜂窝脱硝催化剂模具设计中的应用[J].华电技术,2019,41(12):20-24.

QIN Yiming,HAN Tongjiang,WANG Guanyu,et al. Application of flow field simulation in SCR honeycomb denitrification catalyst mold design[J].Huadian Technology, 41(12): 16-19,24.

1. 张山山,王仁雷,晋银佳,等.燃煤电厂脱硫废水零排放处理技术研究应用及进展[J].华电技术,2019,41(12):25-30.

ZHANG Shanshan,WANG Renlei,JIN Yinjia,et al. Application and development of zero emission treatment technology for desulphurization waste water from coal-fired power plants[J].Huadian Technology, 41(12): 2019, 41(12): 25-30.

1. 刘扬志,刘鹏.废水中重金属离子去除技术的研究及进展[J].华电技术,2019,41(12):31-36.

LIU Yangzhi,LIU Peng. Research and progress in the technique of heavy metal ions removal from waste water[J].Huadian Technology, 41(12): 2019, 41(12): 31-36.

1. 刁培滨,徐静静,余莉,等.燃气分布式能源站余热深度利用技术方案研究[J].华电技术,2019,41(12):37-40,45.

DIAO Peibin,XU Jingjing,YU Li,et al. Technical schemes for waste heat deep utilization in gas distributed energy stations[J].Huadian Technology, 41(12): 37-40,45.

**研究与开发**

1. 冯坤.1000MW超超临界机组发电机调试期间振动问题的分析及处理[J].华电技术,2019,41(12):41-45.

FENG Kun.Vibration analysis and treatment of a 1000MW ultra-supercritical unit during the commissioning[J].Huadian Technology, 41(12): 41-45

1. 徐要伟,朱晨,张文科.水电站泄洪闸弧形工作闸门原型观测试验[J].华电技术,2019,41(12):46-49.

XU Yaowei,ZHU Chen,ZHANG Wenke.Prototype observation on the arc operating gate of discharge sluice in hydropower station[J].Huadian Technology,2019,41(12):46-49.

1. 陈靖,张希,杜炬虎,等.燃气分布式能源站电气监控系统设计优化[J].华电技术,2019,41(12):50-53.

CHEN Jing,ZHANG Xi,DU Juhu,et al.Optimization design for electrical control systems in gas distributed energy stations[J].Huadian Technology,2019,41(12):50-53.

1. 朱晨,刘凤维,张文科.Q460C内加强月牙肋钢岔管模型试验与分析[J].华电技术,2019,41(12):54-57.

ZHU Chen,LIU Fengwei,ZHANG Wenke.Test and analysis of a Q460C crescent-rib reinforced steel bifurcated pipe model[J].Huadian Technology,2019,41(12):54-57.

**技术交流**

1. 林青.SCR脱硝系统烟气流场分布研究及优化控制[J].华电技术,2019,41(12):58-62.

LIN Qing.Study on the distribution and optimization control of SCR denitration system flue gas flow field[J].Huadian Technology,2019,41(12):58-62.

1. 陈宗辉,张林渠,苟进.火车煤煤质预判系统的开发与运用[J].华电技术,2019,41(12):63-67.

CHEN Zonghui,ZHANG Linqu,GOU Jin.Development and application of coal quality prediction system for trains[J].Huadian Technology, 2019, 41(12):63-67.

1. 武志军.综合能源服务下新能源集约化管控评价方法[J].华电技术,2019,41(12):68-71.

WU Zhijun.Evaluation method on new energy intensive management for integrated energy services[J].Huadian Technology, 2019, 41(12): 68-71.

1. 王晓林,柯年凯.6kV电机永磁调速节能技术的应用与探索[J].华电技术,2019,41(12):72-77.

WANG Xiaolin,KE Niankai. Exploration of permanent magnet speed regulation energy-saving technology and its application on 6kV motors[J].Huadian Technology, 2019, 41(12): 72-77.

1. 杨俊强,杨晓飞.燃煤电厂脱硫主塔氧化风完全失去的影响和预控措施 J].华电技术,2019,41(12):78-80.

YANG Junqiang,YANG Xiaofei.Impact and preventive measures for total loss of oxidizing air on main desulfurization tower of a coal-fired power plant[J].Huadian Technology, 2019, 41(12): 78-80.