

发电设备

第 37 卷 第 3 期 (总第 285 期)

双月刊 国内外公开发行

1987 年 1 月创刊 2023 年 5 月 15 日出版

FADIAN SHEBEI

主任委员:严宏强

副主任委员:李政 俞谷颖

委员:丁士发 亓安芳 史进渊 匡江红

孙庆 陈坚红 肖军 杨建刚

杨宇 张瑞 余岳峰 郑开云

翁一武 程智海 窦一康 潘卫国

全国发电设备专业期刊

中国学术期刊综合评价数据库统计源期刊

《中国核心期刊(遴选)数据库》收录期刊

中国期刊全文数据库全文收录期刊

中文科技期刊数据库(全文版)收录期刊

《中国期刊网》全文收录来源期刊

主管:上海发电设备成套设计研究院有限责任公司

主办:上海上发院发电成套设备工程有限公司

协办:发电设备行业科技情报网

编辑出版:《发电设备》编辑部

主编:陈秀彬

副主编:俞谷颖

地址:上海闵行剑川路 1115 号

邮政编码:200240

电话:021-64358710-796

传真:021-64358710-609

E-mail:fadi@speri.com.cn

http://fdsb.speri.com.cn

印刷:上海康城印务有限公司

国内总发行:上海市报刊发行局

国内订阅处:全国各地邮局

邮发代号:4-622

中国标准连续出版物号:ISSN 1671-086X
CN 31-1391/TN

定价:8.00 元

目次

研究与分析

变工况试验下热电联产汽轮机内效率分析研究

冯焱飞,冯林魁,谷志德,赵凯,王平(141)

基于余热回收的高温蒸汽热泵系统能效分析

蒋信,陆启亮,李政,陈培,陆玉琳,
吴光华,祁文,蒋喜(147)

低温省煤器前烟道内流场分析及磨损研究

王亮,李小泉,王杰(153)

汽轮机全电动主油泵润滑油系统的设计与仿真

官相臣,张子健,高超,张帝(159)

设计与制造

大型燃气-蒸汽联合循环机组主机选型及配置探讨……吴静(166)

核电技术

VVER 核电机组 1E 级电气连接件鉴定方法探讨

袁冬英,陈功名,杨晓(171)

国产 PEEK 材料在电气贯穿件的应用研究

申鹏,全先德,吴珂科,杨文健,黄文军,
张辉,涂崇文(176)

材料技术

某电厂给水泵汽轮机末级动叶片断裂分析

周洋,伏文,李艳超(181)

自动控制

基于 BP 神经网络的转子振动预警方法研究……黄杨森(186)

运行与改造

基于 EBSILON 的 1 000 MW 机组热再抽汽供热改造研究

曾海波,陈卓(192)

9E 燃气轮机发电机转子缺陷分析及处理……张学霖(198)

350 MW 超临界 CFB 锅炉点火风道烧损分析及处理

王映奇,杜鸿飞,闫星磊,吕建,张钦(203)

POWER EQUIPMENT

Founded 1987 (Bimonthly)

Vol. 37, No. 3 (Ser. No. 285) May 15, 2023

CONTENTS

Research & Analysis

- Research and Analysis on the Internal Efficiency of CHP Steam Turbine Under Variable Test Conditions
..... Feng Yaofei, Feng Linkui, Gu Zhide, Zhao Kai, Wang Ping (141)
- Analysis on Energy Efficiency of a High Temperature Steam Heat Pump System with Waste Heat Recovery
..... Jiang Xin, Lu Qiliang, Li Zheng, Chen Pei, Lu Wanglin, Wu Guanghua, Qi Wen, Jiang Xi (147)
- Flow Field Analysis and Abrasion Research of Flue Duct in Front of the Low Temperature Economizer
..... Wang Liang, Li Xiaoquan, Wang Jie (153)
- Design and Simulation for the Lubricating Oil System with Electric Main Oil Pumps in Steam Turbine
..... Gong Xiangchen, Zhang Zijian, Gao Chao, Zhang Di (159)

Design & Manufacture

- Discussion on Type Selection and Configuration for Main Engines in a Large Gas-Steam Combined Cycle Unit
..... Wu Jing (166)

Nuclear Technology

- Discussion on Qualification Method of Class 1E Electrical Connectors in VVER Nuclear Power Plant
..... Yuan Dongying, Chen Gongming, Yang Xiao (171)
- Application Research of Domestic PEEK Materials in Electrical Penetration Assemblies
..... Shen Peng, Quan Xiande, Wu Keke, Yang Wenjian, Huang Wenjun, Zhang Hui, Tu Chongwen (176)

Material Technology

- Fracture Analysis on the Last Stage Rotating Blade of Steam Turbine of Feed Water Pump in a Power Plant
..... Zhou Yang, Fu Wen, Li Yanchao (181)

Automatic Control

- Research on Early Warning Method for Rotor Vibration Based on BP Neural Network Huang Yangsen (186)

Operation & Retrofit

- Research on Retrofit of the Heating System with Extraction Steam from Reheat Hot Section in a 1 000 MW Unit Based
on EBSILON Zeng Haibo, Chen Zhuo (192)
- Analysis and Treatment on the Fault of Generator Rotor in a 9E Gas Turbine Zhang Xuelin (198)
- Analysis and Treatment on the Burnout of Ignition Air Duct in a 350 MW Supercritical CFB Boiler
..... Wang Yingqi, Du Hongfei, Yan Xinglei, Lü Jian, Zhang Qin (203)

Responsible Institution: Shanghai Power Equipment Research Institute Co., Ltd.	Tel: 021-64358710-796
Sponsor: SPERI Power Equipment & Engineering Co., Ltd.	Fax: 021-64358710-609
Editor and Publisher: Editorial Department of Power Equipment	E-mail: fadi@speri.com.cn
Editor-in-Chief: Chen Xiubin	http:// fdsb.speri.com.cn
Vice-Editor-in-Chief: Yu Guying	Printer: Shanghai Kangcheng Printing Co., Ltd.
Address: No. 1115 Jianchuan Road, Minhang, Shanghai, China	Subscription Agency: Post-offices in Every Parts of China
Postcode: 200240	Code: 4-622