

目次

电机部分

- 环氧粉云母绝缘两种制造工艺释疑.....赫炆 (1)
首次应用电去离子技术成功解决双水内冷发电机内冷水水质控制问题.....裴锋等 (5)
基于低励磁法的发电机铁心故障检测研究.....王成亮 (9)
发电机突发性振动的诊断和处理.....张卫军 (14)
大型汽轮发电机转子匝间短路故障的分析与诊断.....彭发东等 (17)
六相感应电机 SVPWM 系统的设计与仿真.....郑剑等 (20)
双向推力轴承设计及热弹流性能分析.....武中德, 吴军令 (26)
灯泡贯流式水轮发电机的通风冷却.....陈立卫 (29)
高速水轮发电机组振动故障分析与动平衡优化处理.....姚泽等 (33)
双馈风力发电机最优控制方法研究.....范普成, 王长松 (37)

水轮机部分

- 三峡右岸首台转轮返修的技术措施与退火工艺改进.....王国海 (41)
混流式水轮机飞逸过渡过程的试验与数值模拟.....李金伟等 (44)
牛栏江-滇池补水工程水泵水力优化设计.....吴喜东等 (50)
洪江水电厂灯泡式机组金属结构件缺陷处理与防治浅析.....梁湘津 (54)
轴流式水轮机叶片进口边优化.....赵妍等 (57)

辅机及其他

- 多相无刷励磁系统旋转整流器故障检测新方法.....刘为群等 (61)

主 编: 李正

主管单位: 哈尔滨电气集团公司

主办单位: 哈尔滨大电机研究所

出版单位: 哈尔滨大电机研究所杂志社

地址: 黑龙江省哈尔滨市香坊区三大动力路 51 号

邮政编码: 150040

电话: 0451-82872723

印刷: 哈尔滨华德印务有限公司

国内订购处: 全国各地邮局

国外发行: 中国国际图书贸易总公司(北京市 399 信箱)

邮发代号: 14-11

国外代号: BM547

Editor-in-Chief: Li Zheng

Responsible Institution: Harbin Electric Corporation

Sponsored by: Harbin Institute of Large Electrical Machinery

Published by: DADIANJI Magazine Office

Address: 51, Sandadongli Road, Xiangfang, Harbin, China

Post Code: 150040

Tel: 86-451-82872723

Overseas Distribution: China International Book Trading Corporation

(P. O. Box399, Beijing, China)

Code No: BM547

E-mail: qbzz@hec-china.com

http://djdj.chinajournal.net.cn

CONTENTS

* * * Electric Machine * * *

- Discussion on Two Manufacture Processes of Epoxy-mica Paper Insulation.....HE Xin (1)
- Electric De-Ionization Technology Firstly and Successfully Applied to Adjusting
the Quality of Inner Cooling Water of Double Water Cooled Generator.....PEI Feng etc. (5)
- Generator Core Fault Detection Based on Low Excitation Test Method.....WANG Cheng-liang (9)
- Diagnosis and Treatment for Abrupt Vibration of Generator.....ZHANG Wei-jun etc. (14)
- Analysis and Diagnosis of Large Turbogenerator Rotor Inter-turn Short-circuit Fault.....PENG Fa-dong etc. (17)
- The Design and Simulation of SVPMW System on Six-phase Induction Motor.....Zheng Jian etc. (20)
- Design and Thermo-elastic-hydrodynamic Lubricating Performance Analysis of
Bi-directional Thrust Bearing.....WU Zhong-de etc. (26)
- Ventilation and Cooling Methods for the Bulb Hydrogenerator.....CHEN Li-wei (29)
- Vibration Fault Analysis and Optimization Solution by Dynamic Balance
for High Speed Hydrogenerating Unit.....YAO Ze etc. (33)
- Study of Optimal Control for Doubly-fed Induction Generator.....FAN Pu-cheng etc. (37)

* * * Hydraulic Turbine * * *

- The Technical Measures and Stress-relief Technique Improvement in the Repair Work
for the First Runner in the Right Bank of Three Gorges Project.....WANG Guo-hai (41)
- 3D Unsteady Turbulence Simulation of the Runaway Transients of the Francis Turbine.....LI Jin-wei etc. (44)
- Hydraulic Optimization Design of Pump of Niulanjiang-Dianchi
Water Transformation Project.....WU Xi-dong etc. (50)
- The Metal-structure Defects Repairing and Prevention Method of the Bulb-type Unit
in Hongjiang Hydraulic Power Plant.....LIANG Xiang-jin (54)
- The Optimization of the Blade Inlet Profile of Propeller Turbine
Based on 2D CascadeZHAO Yan etc. (57)

* * * Auxiliary & Others * * *

- New Fault Detection Method for Rotary Rectifier of
Multi-phase Brushless Excitation System.....LIU Wei-qun etc. (61)