

目次

电机部分

- 多相异步电机端部绕组电磁与结构耦合场分析.....黄涛等(1)
基于非正弦供电多相感应电机低速下 V/f 控制研究.....康敏等(5)
并网型双馈发电机电系统的稳定性分析.....黄艳华, 邹旭东(10)
发电电动机的安全稳定运行.....赵政(13)
一种考虑铁耗的感应电机最大效率控制系统.....李子昀(17)
不对称六相分数槽绕组磁势分析.....饶翔等(21)
大中容量短路试验发电机主要设计特点.....张亮等(28)
三峡电站右岸水轮发电机转子支架装焊工艺改进.....闫海滨, 魏方锴(31)
鼠笼式异步电动机转子断条数目判据研究.....孟飞翔等(33)
汽轮发电机现场车加工转子甩油沟工艺方法.....刘俊英(37)

水轮机及水泵

- 局部加热法对水轮机转轮焊接残余应力的影响.....李雅范等(39)
响水涧项目水泵水轮机水力性能研发.....陈元林, 覃大清(42)
转轮几何参数对水泵水轮机水力性能影响的几点体会.....徐用良等(47)
响水涧抽水蓄能电站水泵水轮机洛桑模型验收试验.....黎辉等(50)
贯流式水轮机主轴疲劳强度分析.....王燕, 钟苏(54)

辅机及其他

- 同步发电机自并激励磁系统逆变过程分析.....陈秋林(58)
直流电机 PWM 控制方案的单片机实现.....李向军, 周广滨(61)
水电站机组在线监测技术概述.....王立贤, 杨威(65)

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

刊号: ISSN1000-3983

定价: 10.00 元

CN23-1253/TM

广告经营许可证号: 2301004050023

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: qbzr@hec-china.com

http://djdj.chinajournal.net.cn

[期刊基本参数] CN23-1253/TM*1971*b*A4*68*z*h*P* ¥ 10.00*18*2011-05

Large Electric Machine and Hydraulic Turbine

No3 (Ser. No 216)

(May)2011

CONTENTS

*** * * Electric Machine * * ***

Magneto-structural Coupling Field Analysis on the End
Winding of Multi-phase Asynchronous Motor.....HUANG Tao etc. (1)

Research of V/f Control Method for Multiphase Induction Motor
with Non-sinusoidal Supply at Low Speed.....KANG Min etc. (5)

Stability Analysis for Grid-connected Doubly Fed Generator System.....HUANG Yan-hua etc. (10)

Safe and Stable Operation of Generator-motor.....ZHAO Zheng (13)

An Efficiency Optimization Control System of Induction Motors Considering Iron Loss.....LI Zi-yun (17)

Analysis of Armature Magnetomotive Force
on Anisomeric Hexaphase Fraction Slot Winding.....RAO Xiang etc. (21)

The Main Design Features of Short-circuit-test-generators
with Medium and Large Capacity.....ZHANG Liang etc. (28)

The Assembly and Welding Procedure Improvement for Right Bank
Hydrogenerator Rotor Spider of the Three Gorge Project.....YAN Hai-bin etc. (31)

Research on Broken Rotor Bar Number Estimation of
Squirrel Cage Asynchronous Motor.....MENG Fei-xiang etc. (33)

Technique of Turning Rotor Rejecting Oil Groove on Site.....Liu Jun-ying (37)

*** * * Hydraulic Turbine & Water Pump * * ***

Influence of Local Heating on Welding Residual Stress of Francis Turbine Runner.....LI Ya-fan etc. (39)

Research on the Hydraulic Performance of Pump Turbine for Xiangshuijian Project.....CHEN Yuan-lin etc. (42)

Some Realizations about the Influence of Geometry Parameters
on the Hydraulic Characteristics of Pump-turbine.....XU Yong-liang etc. (47)

Model Acceptance Test for the Pump Turbine of Xiangshuijian Pumped Storage Unit
in Lausanne, Switzerland.....LI Hui etc. (50)

Analysis of Fatigue Strength for Tubular Turbine Main Shaft.....WANG Yan etc. (54)

*** * * Auxiliary & Others * * ***

Analysis on Inversion Process of Static-Excitation System for Synchronous Generator.....CHEN Qiu-lin (58)

Realization of PWM Control Method for DC Motor on Microcontroller.....LI Xiang-jun etc. (61)

The Overview of Online Monitoring Technology for Hydropower Station.....WANG Li-xian etc. (65)