

电机与控制学报

第 14 卷 第 7 期 (总第 69 期) 2010 年 7 月

目 次

电网对称故障时双馈感应发电机低电压穿越控制	蔚 兰, 陈国呈, 曹大鹏, 等 (1)
飞轮储能系统放电单元无源化控制方法研究	荀尚峰, 李铁才, 周兆勇 (7)
直驱永磁同步风力发电机无位置传感器控制	赵仁德, 刘 星, 马 帅, 等 (13)
分段式永磁直线同步电动机有限元分析	吝伶艳, 王淑红, 熊光煜 (18)
PWM 整流器虚拟电网磁链振荡性能改善	张文娟, 高 勇, 马浩森, 等 (23)
水电站主变的直流偏磁的评估与抑制	张 露, 潘卓洪, 雷 鸣, 等 (29)
基于环形绕组的异步电机极-相调制方法	王宝安, 蒋 研, 黄学良, 等 (36)
电力系统综合节能的有功与无功功率协调优化	孙伟卿, 王承民, 张 焰, 等 (41)
一种改进型两相交错并联 Boost 变换器	陆治国, 刘捷丰, 林贤贞 (48)
大型发电机定子主绝缘温度场数值研究	丁树业, 孙兆琼, 苗立杰, 等 (53)
矩阵变换器驱动感应电机转矩和转子磁链控制	王晶鑫, 姜建国 (59)
高精度电机伺服系统控制综合方法	田大鹏, 吴云洁, 刘晓东 (66)
一种基于模糊控制的两步法预测控制方法	武俊峰, 王世明 (75)
用于拦截高超速随机机动目标的自适应两步算法	汪语哲, 史小平 (81)
一种 XLPE 电缆料中杂质颗粒高分辨力测量的方法	崔思海, 赵 洪, 王 暄 (87)
低频线振动台加速度失真非线性补偿控制方法	赵 富, 于志伟, 曾 鸣, 等 (91)
水下机器人 T-S 型模糊神经网络控制	梁 霄, 张均东, 李 巍, 等 (99)

期刊基本参数: CN 23-1408/TM * 1997 * m * A4 * 106 * zh * P * ¥10.00 * 2000 * 17 * 2010-07 * n

责任编辑: 张诗阁 英文审校: 姜毓锋

ELECTRIC MACHINES AND CONTROL

Vol. 14 No. 7 July 2010

CONTENTS

Low voltage ride-through control of doubly fed induction generator during symmetric voltage sag	(1)
Study on passivity control method for flywheel energy storage system discharging unit	(7)
Sensorless control for direct-driven permanent magnet synchronous generators in wind energy generation system	(13)
FEM analysis of segmental-primary permanent magnet linear synchronous motor	(18)
Improvement in oscillatory performance of virtual line-flux-linkage for PWM rectifier	(23)
Evaluation and mitigation for DC bias in Hydropower plant	(29)
Asynchronous motor based on toroidal winding and its pole-phase modulation	(36)
Active/reactive power coordinated optimization in power systems comprehensive energy saving	(41)
Improved two phase interleaved Boost converter	(48)
Numerical investigation of stator main insulation temperature field for large generator	(53)
Torque and rotor flux control for induction motor fed by a matrix converter	(59)
Synthesis methods of high precision motor servo system control	(66)
Research method on a two-step general predictive control based on fuzzy control	(75)
Application of adaptive two-step method in interception of hypersonic random maneuvering target	(81)
Method of high resolution measurement for contamination particles in XLPE insulating compound	(87)
Nonlinear compensation control scheme for acceleration distortion of low-frequency linear vibration table system	(91)
T-S fuzzy neural network control for autonomous underwater vehicles	(99)

Serial parameters: CN 23-1408/TM * 1997 * m * A4 * 106 * zh * P * ¥10.00 * 2000 * 17 * 2010-07 * n

Responsible Editor: ZHANG Shi-ge English Examiner: JIANG Yu-feng