

中国电机工程学报

第 31 卷

第 18 期 (总第 389 期)

2011 年 6 月 25 日

目 次

(电工电机)

• 电力电子与电力传动 •

- 基于谐波补偿特性的并联型有源电力滤波器开关频率取值研究..... 赵国鹏, 刘进军 (1)
- 一种断续电流模式的新型高频电流源驱动电路..... 张之梁, 李艳楠, 徐传岗 (7)
- 电网不平衡时电压型 PWM 整流器控制策略..... 王久和, 杨秀媛 (14)
- 基于下垂锁相的逆变器并网控制策略研究..... 阚加荣, 肖华锋, 过亮, 谢少军 (21)
- 无中性点电位变化的辅助谐振变换极逆变器..... 王强 (27)

• 电机与电器 •

- 行波型旋转超声电机温度场分析方法..... 芦小龙, 张建辉, 赵淳生 (33)
- 风机最大功率点跟踪的失效现象..... 殷明慧, 蒯狄正, 李群, 张小莲, 邹云 (40)
- 转子磁钢表贴式永磁同步电机转子初始位置检测..... 刘颖, 周波, 李帅, 冯瑛 (48)
- 高压永磁同步电动机实心转子三维温度场分析..... 李伟力, 陈婷婷, 曲凤波, 李志鹏 (55)
- 全局滑模控制在永磁同步电机位置伺服中的应用..... 胡强晖, 胡勤丰 (61)
- 永磁同步电机弱磁失控机制及其应对策略研究..... 朱磊, 温旭辉, 赵峰, 孔亮 (67)
- 多相无轴承永磁薄片电机故障运行特性分析..... 王晓琳, 盛旺, 邓智泉, 任新宇 (73)
- 基于递推最小二乘算法的感应电动机参数离线辨识..... 张虎, 李正熙, 童朝南 (79)
- 天窗电机噪声测试及特征频率提取方法..... 李辉, 许良, 杨超, 李学伟, 杨亚丽 (87)
- 无位置传感器的智能永磁接触器弱磁控制及合闸动态特性分析..... 汪先兵, 林鹤云, 房淑华, 任其文, 等 (93)
- 基于突变理论的油浸式变压器过热性故障预测方法..... 全玉生, 湛军, 李巍, 张学东, 彭晓洁, 劳国强 (100)
- 换流变压器极性反转试验的数值模拟..... 李琳, 纪锋, 李文平, 孙优良, 刘刚 (107)

• 电工理论与新技术 •

- 高压直流输电线下合成电场的有限元快速算法..... 甄永赞, 崔翔, 卢铁兵, 周象贤, 罗兆楠 (113)
- 地面上方水平载流导体空间辐射场的快速计算..... 蒋陶宁, 康东升, 胡选, 邹军, 王雅婷 (119)
- 驱动频率对超磁致伸缩致动器的损耗和温升特性的影响..... 李立毅, 严柏平, 张成明 (124)

期刊基本参数: CN11-2107/TM * 1964 * S * A4 * 130 * zh * P * ¥25.00 * 4000 * 20 * 2011-6 版权所有 未经许可不得转载及上网

PROCEEDINGS OF THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

Vol.31 No.18 (Ser.389)

Jun. 25, 2011

CONTENTS

(Electrical Engineering and Machines)

• Power Electronics and Drives •

- Switching Frequency of Shunt Active Power Filter Regarding Harmonics Compensation Characteristics
..... ZHAO Guopeng, LIU Jinjun (1)
- A Novel High Frequency Current Source Driver With Discontinuous Current
.....ZHANG Zhiliang, LI Yannan, XU Chuangang (7)
- Control Strategy of Voltage Source PWM Rectifiers Under Unbalanced Voltage Conditions
..... WANG Jiuhe, YANG Xiuyuang (14)
- Study of Control Strategy for Grid-connected Inverters Based on Dropped PLL
..... KAN Jiarong, XIAO Huafeng, GUO Liang, XIE Shaojun (21)
- Auxiliary Resonant Commutated Pole Inverter Without Change of Neutral Point Potential WANG Qiang (27)

• Electric Machines and Apparatus •

- Temperature Field Analysis for Traveling-wave Rotary Ultrasonic Motor
..... LU Xiaolong, ZHANG Jianhui, ZHAO Chunsheng (33)
- A Phenomenon of Maximum Power Point Tracking Invalidity of Wind Turbines
..... YIN Minghui, KUAI Dizheng, LI Qun, ZHANG Xiaolian, ZOU Yun (40)
- Initial Rotor Position Detection of Surface Mounted Permanent Magnet Synchronous Motor
.....LIU Ying, ZHOU Bo, LI Shuai, FENG Ying (48)
- Analysis on Solid Rotor 3-D Temperature Field in High Voltage PMSM... LI Weili, CHEN Tingting, QU Fengbo, LI Zhipeng (55)
- Global Sliding Mode Control for Permanent Magnet Synchronous Motor Servo System HU Qianghui, HU Qinfeng (61)
- Control Policies to Prevent PMSMs From Losing Control Under Field-weakening Operation
..... ZHU Lei, WEN Xuhui, ZHAO Feng, KONG Liang (67)
- Operating Characteristics Analysis of Multi-phase Bearingless Permanent Magnet Slice Motors With Faulty Phases
..... WANG Xiaolin, SHENG Wang, DENG Zhiquan, REN Xinyu (73)
- Off-line Parameter Identification of Induction Motor Based on Recursive Least-squares Algorithm
.....ZHANG Hu, LI Zhengxi, TONG Chaonan (79)
- Noise Testing and Characteristic Frequency Extraction Method of Sunroof Motor
..... LI Hui, XU Gen, YANG Chao, LI Xuewei, YANG Yali (87)
- Analysis of Flux-weakening Control and Dynamic Characteristic for Making Process of
Sensorless Intelligent Permanent Magnet Contactor..... WANG Xianbing, LIN Heyun, FANG Shuhua, REN Qiwen, et al (93)
- Methodology of Forecasting the Oil-immersed Transformer Over-hot Fault Tendency Based on Catastrophe Theory
..... QUAN Yusheng, CHEN Jun, LI Wei, ZHANG Xuedong, PENG Xiaojie, LAO Guoqiang (100)
- Numerical Simulation of Converter Transformer's Polarity Reversal Test
..... LI Lin, JI Feng, LI Wenping, SUN Youliang, LIU Gang (107)

• Theory and New Technology of Electrical Engineering •

- FEM High-speed Method for Calculating Total Electric Field Below HVDC Lines
.....ZHEN Yongzan, CUI Xiang, LU Tiebing, ZHOU Xiangxian, LUO Zhaonan (113)
- Fast Algorithm for Calculating Electromagnetic Field Produced by Horizontally Placed Current Conductor Above Lossy Ground
.....JIANG Taoning, KANG Dongsheng, HU Xuan, ZOU Jun, WANG Yating (119)
- Influence of Frequency on Characteristic of Loss and Temperature in Giant Magnetostrictive Actuator
.....LI Liyi, YAN Baiping, ZHANG Chengming (124)