



ISSN 1000-6753

CN 11-2188/TM

半月刊

SEMIMONTHLY

电工技术学报

TRANSACTIONS OF
CHINA ELECTROTECHNICAL SOCIETY



中国电工技术学会主办

2018年第23期

第33卷 Vol. 33 No. 23

ISSN 1000-6753

23>
9 771000 675185

电工技术学报

2018 年 第 33 卷 第 23 期

目 次

电机与电器

- 5391 低速运行时异步驱动转速自适应观测器稳定性分析与设计 李筱筠 杨淑英 曹朋朋 马铭遥
5402 一种笼型转子无刷双馈电机的磁链观测方法 陈正方 王淑红 高若中 王景轩 张健
5410 考虑及互感影响的四相开关磁阻电机测试线圈转子位置检测研究 陈辉 张晓明 张磊 刘闯
5418 IPMSM 动态电感辨识方法及转子位置估计误差补偿策略 李峰 车进 刘大铭 夏超英 王红艳
5427 高温超导运动磁场电磁 Halbach 初级结构直线感应磁悬浮电机 秦伟 范瑜 徐洪泽 吕刚 方进
5435 铁心表面局部磁特性检测系统设计与实现 王振 张艳丽 任亚军 张殿海 谢德馨
5442 基于球谐函数的动量球定子磁场分析 李斌 张硕 李桂丹 李洪凤
5449 智能电磁接触器自抗扰电流模型预测控制 庄杰榕 许志红

电力电子

- 5459 转速负反馈在伺服系统机械谐振抑制中的应用研究 杨影 张杰鸣 徐国卿 王爽 汪飞
5470 基于七电平有源中点钳位型双 PWM 变流器的同步电机矢量控制系统 绳伟辉 葛琼璇
5484 基于内模原理的并网逆变器双模 PI 控制 王吉彪 陈启宏 张立炎 周克亮
5496 超级电容接口双向 DC-DC 变换器的电压快恢复控制策略 刘宿城 甘洋洋 刘晓东 刘雁飞

电力系统

- 5509 基于改进并行子空间算法的输配两级电网协同优化 叶畅 苗世洪 李超 杨炜晨 孙丹丹
5523 脉冲功率负载等效拓扑及潮流计算模型分析 严鋆 王金全 黄克峰 季少卫 徐晔
5532 预想故障隔离的变位开关识别 龙呈 滕予非 刘明忠 张鹏 段翔兮
5541 多形态激励型需求侧响应协同平衡可再生能源波动的鲁棒优化配置 易文飞 张艺伟 曾博 黄永章
5555 基于压缩感知的电力线脉冲噪声抑制 邓蓉 谭周文 肖郭璇 汪广 刘宏立

高电压与绝缘

- 5564 新型 UV XLPE 电缆绝缘材料的交联及电学特性 付雨微 王暄 吴强华 赵洪
5573 基于频率调谐的绝缘子识别与定位 朱邵成 高清维 卢一相 孙冬
5581 交直流复合电压下铜颗粒在油中的分布及对绝缘油击穿特性的影响 王有元 李熙 李原龙 蔚超 陆云才
5591 纳米氧化石墨烯/环氧树脂复合材料的电极极化现象 张宏亮 金海 张丝钰 刘鹏 彭宗仁
5600 高压开关 SF₆-Cu 电弧净辐射系数计算 仲林林 王小华 荣命哲
5607 基于采样序列重构的高精度介质损耗角测量方法 王永 滕召胜 李建闽 唐求 成达
5616 基于原子力显微镜的微间隙空气放电研究 孙志 付琳清 高鑫 韩柏 孙伟峰
5625 基于序贯数据的有源分离算法的局部放电特高频信号去噪方法 刘宇舜 程登峰 夏令志 李森林 程洋

Contents

- 5391 Analysis of the Stability of Speed Adaptive Observer and Its Design for Induction Motor Drive at Low Speeds Li Xiaojun Yang Shuying Cao Pengpeng Ma Mingyao
- 5402 A Flux Linkage Observation Method of Cage-Rotor Brushless Doubly-Fed Machine Chen Zhengfang Wang Shuhong Gao Ruozhong Wang Jingxuan Zhang Jian
- 5410 Research on Rotor Position Detection of Four Phase Switched Reluctance Motor Based on Searching Coils Considering Mutual Inductance Chen Hui Zhang Yangming Zhang Lei Liu Chuang
- 5418 Dynamic Inductance Identification Method and Rotor Position Estimation Error Compensation Strategy for IPMSM Li Feng Che Jin Liu Daming Xia Chaoying Wang Hongyan
- 5427 A Linear Induction Maglev Motor with HTS Traveling Magnetic Electromagnetic Halbach Array Qin Wei Fan Yu Xu Hongze Lü Gang Fang Jin
- 5435 Design and Implementation of Detection System of Local Magnetic Property on the Surface of Iron Core Wang Zhen Zhang Yanli Ren Yajun Zhang Dianhai Xie Dexin
- 5442 Stator Magnetic Field Analysis of Reaction Sphere Based on Spherical Harmonics Li Bin Zhang Shuo Li Guidan Li Hongfeng
- 5449 The Active Disturbance Rejection with Current Model Predictive Control for Intelligent Electromagnetic Contactor Zhuang Jierong Xu Zhihong
- 5459 Application Research on Speed Negative Feedback in Mechanical Resonance Suppression in Servo System Yang Ying Zhang Jieming Xu Guoqing Wang Shuang Wang Fei
- 5470 Vector Control System of Synchronous Motors Based on Seven-Level Active Neutral-Point-Clamped Dual PWM Converter Sheng Weihui Ge Qiongxuan
- 5484 Internal Model Principle Based Dual-Mode PI Control for Grid-Tied Inverters Wang Jibiao Chen Qihong Zhang Liyan Zhou Keliang
- 5496 Fast Voltage Recovery Control Strategy for Supercapacitor Interfacing Bidirectional DC-DC Converter Liu Sucheng Gan Yangyang Liu Xiaodong Liu Yanfei
- 5509 Coordination Optimal Scheduling Strategy for Transmission and Distribution System Based on Improved CSSO Algorithm Ye Chang Miao Shihong Li Chao Yang Weichen Sun Dandan
- 5523 Analysis of Equivalent Topology and Power-Flow Calculation Model for Pulsed Power Load Yan Jun Wang Jinquan Huang Kefeng Ji Shaowei Xu Ye
- 5532 A Method of Identifying Shift Switch of Expected Failure Isolation Long Cheng Teng Yufei Liu Mingzhong Zhang Peng Duan Xiangxi
- 5541 Robust Optimization Allocation for Multi-Type Incentive-Based Demand Response Collaboration to Balance Renewable Energy Fluctuations Yi Wenfei Zhang Yiwei Zeng Bo Huang Yongzhang
- 5555 Impulse Noise Suppression in Power Line Communication Based on Compressed Sensing Deng Rong Tan Zhouwen Xiao Guoxuan Wang Guang Liu Hongli
- 5564 Crosslinked and Electrical Characteristics for Cable Insulating Material of New UV XLPE Fu Yuwei Wang Xuan Wu Qianghua Zhao Hong
- 5573 Identification and Location of Insulator String Based on Frequency-Tuned Zhu Shaocheng Gao Qingwei Lu Yixiang Sun Dong
- 5581 Distribution of Copper Particle in Insulating Oil and Its Influence on Breakdown Strength of Insulating Oil under Combined AC and DC Voltage Wang Youyuan Li Xi Li Yuanlong Wei Chao Lu Yuncai
- 5591 Electrode Polarization in Graphene Oxide/Epoxy Resins Nanocomposites Zhang Hongliang Jin Hai Zhang Siyu Liu Peng Peng Zongren
- 5600 Calculation of Net Emission Coefficients of SF₆-Cu Arc in High-Voltage Circuit Breakers Zhong Linlin Wang Xiaohua Rong Mingzhe
- 5607 High Accuracy Dielectric Loss Angle Measurement Method Based on Sampling Sequence Reconstruction Wang Yong Teng Zhaosheng Li Jianmin Tang Qiu Cheng Da
- 5616 Research of Discharge in Micro-Gap Based on Atomic Force Microscope Sun Zhi Fu Linqing Gao Xin Han Bai Sun Weifeng
- 5625 Partial Discharge Ultra-High Frequency Signal De-Noising Method Based on Single-Channel Blind Source Separation Algorithm Liu Yushun Cheng Dengfeng Xia Lingzhi Li Senlin Cheng Yang