



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11期

第33卷 Vol.33 No.11

ISSN 1000-6753



电工技术学报

2018年 第33卷 第11期

目次

电机与电器

- 2403 大气隙磁通切换无轴承永磁电机径向力绕组设计与比较 丁强 王晓琳 邓智泉 倪拓成
2414 内置式交替极永磁同步电机性能及机理研究 樊英 谭超
2423 轴向磁通轮毂电机磁力波灵敏度分析和优化 左曙光 刘洋 邓文哲
2431 交流接触器晃电保护无隙切换拓扑结构研究 杨东升 马占超 高筱婷 王智良 曾俊彦
2439 不完备故障类别下基于 Multi-SVDD 的高压隔离开关故障诊断方法 陈士刚 关永刚 张小青 杨元威 张一茗
2448 触头片结构对新型带铁心的杯状纵磁真空灭弧室磁场影响仿真 董华军 司明月 郭英杰 李春晓 郭方准

电力系统

- 2456 考虑风电不确定性和气网运行约束的鲁棒经济调度和备用配置 罗毅 邵周策 张磊 姚良忠
2468 混压同塔四回输电线路零序参数测量方法 倪识远 胡志坚 杨安琪 傅晨宇
2479 基于多负荷端口戴维南等效的电气化铁路牵引网潮流算法 张俊骥 吴命利
2486 非线性负载下微电网主逆变器输出侧电能质量控制策略 涂春鸣 杨义肖 凡兰 征 李元涛
2496 混压部分同塔双回线跨电压故障短路计算 郑涛 张嘉琴 吴丹 黄少锋 王小立
2508 并行 EEMD 算法及其在局部放电信号特征提取中的应用 朱永利 王刘旺
2520 UPFC 与系统的强动态交互对机电振荡模式的影响 任必兴 杜文娟 王海风
2535 基于神经模糊 Petri 网的高压断路器故障诊断研究 程学珍 朱晓林 杜彦宾 王程 曹茂永
2545 基于 RBF 神经网络的干式空心电抗器涡流损耗计算 陈锋 王嘉玮 吴梦晗 马西奎

电力电子

- 2554 反激式微逆集群并网谐波交互性能对比研究 冯夏云 汪飞 吴春华 杜燕 苏建徽
2564 弱电网下 LCL 逆变器阻尼谐振抑制与功率快速调节方法 陈燕东 王伊 周乐明 周小平 谢志为
2575 含 Buck 电路的锂电池低功耗电量均衡技术研究 魏业文 李应智 曹斌 郝玢鑫 刘国特
2584 基于单脉冲注入的直流微电网线路阻抗检测 刘琛 赵晋斌 王闪闪 屈克庆 李芬
2592 大功率 IGBT 的短路故障检测 胡亮灯 孙驰 陈玉林 肖明恺 艾胜

高电压与绝缘

- 2604 基于改进 FastICA 的局部放电在线监测窄带干扰高保真性抑制方法 周凯 谢敏 赵世林 何珉 张福忠
2613 油浸纸套管尾部受潮故障模拟及早期特征 戴俭民 齐波 李成榕 卓然 傅明利
2620 OMMT/PES/BMI 复合材料的介电性能 陈宇飞 郭红缘 楚洪月 汪波涛

电工理论与新技术

- 2626 质子交换膜燃料电池低温启动水热管理特性及优化 罗悦齐 张嵩 高丽萍 俞剑峰
2636 基于改进能量算子改进 Chirp-Z 变换的闪变包络参数提取 李林 高云鹏 张韵琦 吴聪 曹一家

Contents

- 2403 Design and Comparison of Radial Force Winding Configurations For Wide Air-Gap Flux-Switching Bearingless Permanent-Magnet Motor Ding Qiang Wang Xiaolin Deng Zhiquan Ni Tuocheng
- 2414 Analysis of Electromagnetic Performance and Principles in Inserted Consequent-Pole Permanent Magnet Synchronous Machines Fan Ying Tan Chao
- 2423 Sensitivity Analysis and Optimization of Electromagnetic Force Wave of an Axial-Flux in-Wheel Motor Zuo Shuguang Liu Yang Deng Wenzhe
- 2431 Research on Voltage Sag Protection Topology Based on Seamless Switching for AC Contactors Yang Dongsheng Ma Zhanchao Gao Xiaoting Wang Zhiliang Zeng Junyan
- 2439 Diagnosis Method of High Voltage Isolating Switch Fault Based on Multi-SVDD under Incomplete Fault Type Chen Shigang Guan Yonggang Zhang Xiaoqing Yang Yuanwei Zhang Yiming
- 2448 Influence of Contact Plate Structure on Magnetic Field Strength of a New Type of Cup-Shaped Axial Magnetic Field Vacuum Interrupter with Iron Core Dong Huajun Si Mingyue Guo Yingjie Li Chunxiao Guo Fangzhun
- 2456 Robust Economic Dispatch and Reserve Configuration Considering Wind Uncertainty and Gas Network Constraints Luo Yi Shao Zhouce Zhang Lei Yao Liangzhong
- 2468 An Approach for Measuring the Zero Sequence Parameters of Mix-Voltage Quadruple-Circuit Transmission Lines on One Tower Ni Shiyuan Hu Zhijian Yang Anqi Fu Chenyu
- 2479 Power Flow Algorithm for Electric Railway Traction Network Based on Multiple Load Port Thévenin Equivalence Zhang Junqi Wu Mingli
- 2486 The Output Side Power Quality Control Strategy for Microgrid Main Inverter under Nonlinear Load Tu Chunming Yang Yi Xiao Fan Lan Zheng Li Yuantao
- 2496 Cross-Voltage Short-Circuit Calculation of Mixed-Voltage Double-Circuit Lines Partly on the Same Tower Zheng Tao Zhang Jiaqin Wu Dan Huang Shaofeng Wang Xiaoli
- 2508 Parallel Ensemble Empirical Mode Decomposition and Its Application in Feature Extraction of Partial Discharge Signals Zhu Yongli Wang Liuwang
- 2520 Impact of Strong Dynamic Interaction Between UPFC and System on Electromechanical Oscillation Mode Ren Bixing Du Wenjuan Wang Haifeng
- 2535 High Voltage Circuit Breaker Fault Diagnosis Based on Neural Fuzzy Petri Nets Cheng Xuezheng Zhu Xiaolin Du Yanbin Wang Cheng Cao Maoyong
- 2545 Eddy Current Loss Calculation of Dry-Type Air-Core Reactor Based on Radial Basis Function Neural Network Chen Feng Wang Jiawei Wu Menghan Ma Xikui
- 2554 Comparisons of Harmonic Interactions Due to Integrated Flyback Micro-Inverters Feng Xiayun Wang Fei Wu Chunhua Du Yan Su Jianhui
- 2564 Damping Resonance Suppression and Fast Power Regulation Method for LCL-Type Inverter under Weak Grid Chen Yandong Wang Yi Zhou Leming Zhou Xiaoping Xie Zhiwei
- 2575 Research on Power Equalization of Lithium-Ion Batteries with Less-Loss Buck Chopper Wei Yewen Li Yingzhi Cao Bin Zhu Binxin Liu Guote
- 2584 A Line Impedance Identification Based on Single Pulse Injection in DC Microgrid Liu Chen Zhao Jinbin Wang Shanshan Qu Keqing Li Fen
- 2592 Short-Circuit Fault Detection for High-Power IGBT Hu Liangdeng Sun Chi Chen Yulin Xiao Mingkai Ai Sheng
- 2604 Periodic Narrowband Noise Rejection with High Fidelity of Partial Discharge on Line Monitoring Based on Improved FastICA Algorithm Zhou Kai Xie Min Zhao Shilin He Min Zhang Fuzhong
- 2613 Fault Simulation and Early Characteristics of Tail Moisture in Oil-Immigrated Paper Bushing Dai Quanmin Qi Bo Li Chengrong Zhuo Ran Fu Mingli
- 2620 Dielectric Properties of OMMT/PES/BMI Composites Chen Yufei Guo Hongyuan Chu Hongyue Wang Botao
- 2626 Optimization of Water and Thermal Management in Proton Exchange Membrane Fuel Cell during Low Temperature Startup Luo Yueqi Zhang Song Gao Liping Yu Jianfeng
- 2636 Voltage Flicker Envelope Tracking Based on Improved k -Value Energy Operator and Improved Chirp-Z Transform Li Lin Gao Yunpeng Zhang Yunqi Wu Cong Cao Yijia