

电工技术学报

2018年 第33卷 第1期

目次

电力电子

- 1 基于扰动跟踪法的变压器有源降噪系统研究 王晋伟 应黎明 刘勤 杨鹏
9 磷酸铁锂电池梯次利用健康特征参数提取方法 李晓宇 徐佳宁 胡泽徽 宋凯 朱春波
17 基于电动汽车工况识别预测的锂离子电池 SOE 估计 刘伟龙 王丽芳 王立业
26 新型非隔离型三相三电平光伏并网逆变器及其漏电流抑制研究 郭小强 朱铁影

电机与电器

- 38 直驱式永磁同步海流机叶轮不平衡的故障检测 张米露 王天真 汤天浩 Yide Wang
48 车用爪极发电机转子极爪倒角对电磁振动的影响研究 吴双龙 左曙光 钟鸿敏 张耀丹 孙罕
55 扁平大功率高速永磁同步电机的护套设计及其强度优化
..... 万援 崔淑梅 吴绍朋 Ostanin Sergei Yurievich Milyaev Igor Matveevich
64 连接器贵金属镀层材料的微动接触性能 林雪燕 吴青艳 单栋梁
71 基于灰度-梯度共生矩阵的串联故障电弧特征 郭凤仪 邓勇 王智勇 游江龙 高洪鑫
82 基于电流信号特征的弓网电弧识别方法 王智勇 郭凤仪 冯晓丽 王玉婷 陈程

电力系统

- 92 基于传输点容量模型的发输电系统可靠性评估 祝锦舟 张焰 王赛一 华月申
104 基于 LCL-S 拓扑的感应电能传输系统的建模与控制方法 林天仁 李勇 麦瑞坤
112 基于沿线电压分布规律的快速故障测距 李振兴 王新 田斌 李振华 翁汉翔
121 基于 NExT 和 PRCE 方法的低频振荡分析 谢剑成 业 王晓茹

电工理论与新技术

- 131 开有介质封堵环状孔缝的双金属腔体屏蔽效能的解析研究 郝建红 公延飞 蒋璐行 范杰清
140 基于电磁超声双换能器的单模态 Lamb 波激励方法研究 刘素贞 张严伟 张闯 金亮 杨庆新
148 二维电磁场-流体-温度场耦合仿真节点数据映射算法研究 刘刚 张瀚方 池骋 李琳 李慧奇
158 基于小波包优选的模拟电路故障特征提取方法 袁莉芬 孙业胜 何怡刚 张悦 吕密
166 基于三维励磁结构的电工磁材料动态磁特性测试与分析 李永建 王利祥 张长庚 赵青

高电压与绝缘

- 175 多频正弦电压激励的快速频域介质响应测试及波形参数优化方法 杨丽君 王松华 郑含博 付刚 陈俊儒
185 空气间隙的储能特征与放电电压预测 邱志斌 阮江军 唐烈峥 徐闻婕 黄从鹏
195 模拟山火条件下导线-板间隙击穿特性影响因素分析 黎鹏 阮江军 黄道春 魏晗 秦航 龙明洋
202 基于压缩感知的特高频局部放电定位法 李臻 罗林根 盛戈峰 姜勇 江秀臣
209 典型伞型瓷及复合绝缘子积污特性模拟研究 吕玉坤 赵伟萍 庞广陆 李志超 卫少科
217 基于光纤数据光栅传感技术的复合材料杆塔老化寿命预测 李姗姗 王力农 方雅琪 郭真萍 宋斌

Contents

1	Study on Transformer Active Noise Control System Based on Disturbance Tracking Method	Wang Jinwei Ying Liming Liu Qin Yang Peng
9	The Health Parameter Estimation Method for LiFePO ₄ Battery Echelon Use	Li Xiaoyu Xu Jianing Hu Zehui Song Kai Zhu Chunbo
17	Estimation of State-of-Energy for Electric Vehicles Based on the Identification and Prediction of Driving Condition	Liu Weilong Wang Lifang Wang Liye
26	Research on Leakage Current Suppression of Novel Three-Phase Three-Level Non-Isolated PV Inverter	Guo Xiaoqiang Zhu Tieying
38	Blade Imbalance Fault Detection Method for Direct-Driven Marine Current Turbine with Permanent Magnet Synchronous Generator	Zhang Milu Wang Tianzhen Tang Tianhao Yide Wang
48	Influence of Rotor Claw Chamfer on Electromagnetic Vibration of Automotive Claw Pole Alternator	Wu Shuanglong Zuo Shuguang Zhong Hongmin Zhang Yaodan Sun Han
55	Design and Strength Optimization of the Carbon Fiber Sleeve of High-Power High-Speed PMSM with Flat Structure	Wan Yuan Cui Shumei Wu Shaopeng Ostanin Sergei Yurievich Milyaev Igor Matveevich
64	Fretting Contact Characteristics of Precious Metal-Plating Materials Used in Electrical Connectors	Lin Xueyan Wu Qingyan Shan Dongliang
71	Series Arc Fault Characteristics Based on Gray Level-Gradient Co-Occurrence Matrix	Guo Fengyi Deng Yong Wang Zhiyong You Jianglong Gao Hongxin
82	Recognition Method of Pantograph Arc Based on Current Signal Characteristics	Wang Zhiyong Guo Fengyi Feng Xiaoli Wang Yuting Chen Cheng
92	A Method for Composite Power System Reliability Evaluation Based on Delivery Point Capability Model	Zhu Jinzhou Zhang Yan Wang Saiyi Hua Yueshen
104	Modeling and Control Method of Inductive Power Transfer System Based on LCL-S Topology	Lin Tianren Li Yong Mai Ruikun
112	A Fast Fault Location Method Based on Distribution Voltage Regularities along Transmission Line	Li Zhenxing Wang Xin Tian Bin Li Zhenhua Weng Hanli
121	Estimation of Electromechanical Oscillation Modes Based on NExT-PRCE Method	Xie Jian Cheng Ye Wang Xiaoru
131	Analytical Formulation for the Shielding Effectiveness of a Cascaded Double Metallic Enclosures with an Annular Aperture Sealed by Conductive Material	Hao Jianhong Gong Yanfei Jiang Luhang Fan Jieqing
140	Research on Excitation Method of Single-Mode Lamb Wave Based on Electromagnetic Acoustic Double Transducer	Liu Suzhen Zhang Yanwei Zhang Chuang Jin Liang Yang Qingxin
148	Research on Node Data Mapping Algorithm for the 2D Coupling Electromagnetic-Fluid-Thermal Fields	Liu Gang Zhang Hanfang Chi Cheng Li Lin Li Huiqi
158	Fault Feature Extraction Method for Analog Circuit Based on Preferred Wavelet Packet	Yuan Lifan Sun Yesheng He Yigang Zhang Yue Lü Mi
166	Dynamic Magnetic Properties Testing and Analysis of the Electric Magnetic Materials Based on Three-Dimensional Excitation Structure	Li Yongjian Wang Lixiang Zhang Changgeng Zhao Qing
175	A Fast Frequency Domain Dielectric Spectroscopy Method under Multisine Voltage Excitation and Waveform Parameters Optimization	Yang Lijun Wang Songhua Zheng Hanbo Fu Gang Chen Junru
185	Energy Storage Features and Discharge Voltage Prediction of Air Gaps	Qiu Zhibin Ruan Jiangjun Tang Liezheng Xu Wenjie Huang Congpeng
195	Influence Factors Analysis of the Conductor-Plane Gap Breakdown Characteristic under Simulation Forest Fire Condition	Li Peng Ruan Jiangjun Huang Daochun Wei Han Qin Zhihang Long Mingyang
202	Ultrahigh Frequency Partial Discharge Localization Methodology Based on Compressed Sensing	Li Zhen Luo Lingen Sheng Gehao Jiang Yong Jiang Xiuchen
209	Simulation of Contamination Deposition on Typical Shed Porcelain and Composite Insulators	Lü Yukun Zhao Weiping Pang Guanglu Li Zhichao Wei Shaoke
217	Aging Prediction of Composite Tower Based on FBG Sensing Technology	Li Shanshan Wang Linong Fang Yaqi Guo Zhenping Song Bin