

ISSN 1003-8930
CODEN DXJZAA

Proceedings of the CSU-EPSSA

A Publication of the Chinese Society of Universities for
Electric Power System and its Automation

电力系统及其 自动化学报

10
2018

第30卷 第10期

Vol. 30 No.10

ISSN 1003-8930



天津大学 主办

电力系统及其自动化学报

全国高等学校电力系统及其自动化学术年会刊物

第 30 卷 第 10 期(总 177 期)

2018 年 10 月

目 次

学术论文

- 能源互联网研究进展:定义、指标与研究方法 赵 军,王 妍,王 丹,等(1)
- 基于数据相关性及互补性的配电网选线新方法 周佳铭,王媛媛,姚灿棋,等(15)
- 基于配网自动化的电缆配电环网短路故障定位与隔离方法 孙 东,仇志华,赵倩鹏,等(21)
- NPC 三电平逆变器共模电压及中点电位波动协同抑制方法 王 萍,戚 银,张 云(28)
- 三电平并网变换器的模型预测控制 王 洋,程志江,李永东(34)
- 大规模风电并网无功调控技术综述 李军徽,毕江林,严干贵,等(42)
- 功率加权的级联 H 桥光伏并网逆变器功率均衡控制 叶满园,潘 涛(49)
- 分时电价与电动汽车优化调度的主从博弈模型 杨国清,罗 航,王德意,等(55)
- 基于电弧电流边际谱能量比的输电线路永久性故障识别方法 李博通,赵 盛,李 斌,等(61)
- 基于 PMU 的配电网潮流雅可比矩阵鲁棒估计与拓扑辨识 郭 岫,王 鹏,栾文鹏,等(68)
- 基于广域信息的直流连续换相失败紧急控制方法 程 哲,鲍颜红,任先成,等(77)
- 计及节点分裂的源网协同优化决策 刘国静,李 娟,谈 健,等(84)
- 高压直流输电机电磁-数模双混合仿真平台 胡 伟,李 君,姚其新,等(91)
- 发电厂非全相运行电气量计算方法及保护方案 朱子娇,杨 涛,王慧芳,等(97)
- 油浸式变压器铁心振动特性分析 赵莉华,丰 遥,谢荣斌,等(104)
- 考虑负荷电压静特性的有源配电网潮流计算 初 壮,白望望,李 钊(111)
- 双断口断路器并联电容对潜供电弧影响 肖智彬,孙秋芹,刘 浩,等(117)
- 用于柔性直流配电的高频隔离链式双向直流固态变压器 孙丽敬,吴 鸣,汪 洋等(124)
- 分布式电源对区域配电网合理线损标杆计算的影响 史 雷,赵滨滨,徐晓萌,等(132)
- 变压器抗短路能力模糊层次分析模型的应用 左秀江,钱文晓,王延伟,等(139)
- 智能变电站跨间隔联合测试方法 廖小君,黄忠胜,韩花荣,等(145)

期刊基本参数:CN 12-1251/TM*1989*m*A4*150*zh*P*¥10.00*700*21*2018-10

Proceedings of the CSU-EPSSA

Vol. 30 No.10 (Sum 177)

October 2018

Contents

Theoretical Research

Research Progress in Energy Internet: Definition, Indicator and Research Method	ZHAO Jun, WANG Yan, WANG Dan, <i>et al</i> (1)
Novel Approach for Line Selection in Distribution Network Based on Correlation and Complementarity of Data	ZHOU Jiaming, WANG Yuanyuan, YAO Canqi, <i>et al</i> (15)
Distribution Automation Based Short-circuit Fault Location and Isolation Method for Closed-loop Distribution Network with Underground Cable	SUN Dong, ZHANG Zhihua, ZHAO Qianpeng, <i>et al</i> (21)
Co-inhibition Method of Common Mode Voltage and Neutral Point Potential Fluctuation for NPC Three-level Inverter	WANG Ping, QI Yin, ZHANG Yun (28)
Model Predictive Control of Three-level Grid-connected Converter	WANG Yang, CHENG Zhijiang, LI Yongdong (34)
Review on Reactive Power Regulation Techniques of Large-scale Wind Power Integration	LI Junhui, BI Jianglin, YAN Gangui, <i>et al</i> (42)
Power Balanced Control of Cascaded H-Bridge Photovoltaic Grid-connected Inverter Based on Power-weighting	YE Manyuan, PAN Tao (49)
Leader-follower Game Model of Time-of-use Electricity Price and Optimized Plug-in Electric Vehicle Dispatching	YANG Guoqing, LUO Hang, WANG Deyi, <i>et al</i> (55)
Permanent Fault Identification Method for Transmission Line Based on Marginal Spectral Energy Ratio of Arc Current	LI Botong, ZHAO Sheng, LI Bin, <i>et al</i> (61)
Robust Method for Power Flow Jacobian Matrix Estimation and Topology Identification of Distribution Network Based on PMU	GUO Shen, WANG Peng, LUAN Wenpeng, <i>et al</i> (68)
Emergency Control Method for DC Continuous Commutation Failure Based on Wide-area Information	CHENG Zhe, BAO Yanhong, REN Xiancheng, <i>et al</i> (77)
Synergistic Optimization Decision-making of Source and Network Considering Bus Splitting	LIU Guojing, LI Juan, TAN Jian, <i>et al</i> (84)
Electromechanical-electromagnetic and Digital-analog Hybrid Simulation Platform for HVDC Transmission	HU Wei, LI Jun, YAO Qixin, <i>et al</i> (91)
Calculation Method and Protection Scheme of Power Plant in Open-phase Operation	ZHU Zijiao, YANG Tao, WANG Huifang, <i>et al</i> (97)
Analysis of Vibration Characteristics for Oil-immersed Transformer Core	ZHAO Lihua, FENG Yao, XIE Rongbin, <i>et al</i> (104)
Power Flow Calculation of Active Distribution Network with the Consideration of Static Load Voltage Characteristics	CHU Zhuang, BAI Wangwang, LI Zhao (111)
Influence of Parallel Capacitor of Circuit Breaker with Double-break on Secondary Arc	XIAO Zhibin, SUN Qiuqin, LIU Hao, <i>et al</i> (117)
Bidirectional High-frequency-link DC Solid-state Transformer for Flexible DC Power Distribution	SUN Lijing, WU Ming, WANG Yang, <i>et al</i> (124)
Influence of Distributed Generations on Calculation of Reasonable Power Loss Benchmark in Regional Distribution System	SHI Lei, ZHAO Binbin, XU Xiaomeng, <i>et al</i> (132)
Application of Fuzzy Analytic Hierarchy Process Model to Short-circuit Withstanding Ability of Transformer	ZUO Xiujiang, QIAN Wenxiao, WANG Yanwei, <i>et al</i> (139)
Cross-interval Joint Test Method for Smart Substation	LIAO Xiaojun, HUANG Zhongsheng, HAN Huarong, <i>et al</i> (145)