**《电力工程技术》**

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**第6期**

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孟冰冰， 郭丰慧， 胡林献，等. 考虑天然气-电力耦合的多能源系统风电消纳分析[J]. 电力工程技术,2019,38(6):2-8.

MENG Bingbing, GUO Fenghui, HU Linxian , et al. Wind abandonment analysis of multi-energy systems considering gas-electricity coupling [J]. Electric Power Engineering Technology, 2019, 38(5):2-8.

[2] 基于泛在电力物联网的换流站在线监测系统优化综述

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LYU Jiwei. Optimization survey of online monitoring system for converter station based on ubiquitous power IoT [J]. Electric Power Engineering Technology, 2019, 38(5):9-15.

[3] 基于深度置信网络和多维信息融合的变压器故障诊断方法

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LIU Wenze, ZHANG Jun, DENG Yan. Transformer fault diagnosis method based on deep learning and multi-dimensional information fusion [J]. Electric Power Engineering Technology, 2019, 38(5):16-23.

[4] 基于欠完备自编码器的用户用电行为分类分析方法

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HUANG Qifeng, YANG Shihai, DENG Xinyu ,et al. Classification analysis method for electricity consumption behavior based on undercomplete autoencoder [J]. Electric Power Engineering Technology, 2019, 38(5):24-30.

[5] 蓝牙5.0 mesh组网技术及其在光伏电站中的应用

唐孝舟， 翟剑华， 王建锋，等. 蓝牙5.0 mesh组网技术及其在光伏电站中的应用[J]. 电力工程技术,2019,38(6):31-36.

TANG Xiaozhou, ZHAI Jianhua, WANG Jianfeng, et al. Bluetooth 5.0 mesh technology and its application in photovoltaic power station [J]. Electric Power Engineering Technology, 2019, 38(5):31-36.

**专论与综述**

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HUANG Xinghai, CHEN Wei, FU Chuang,et al. Parameter optimization of HVDC controller based on different Modeling [J]. Electric Power Engineering Technology, 2019, 38(6):37-46.

[2] 基于LQ-GSA的独立型微网容量优化配置

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HUANG Baole, YUAN Xiaoling. Optimal sizing for stand-alone microgrid based on LQ-GSA algorithm [J]. Electric Power Engineering Technology, 2019, 38(6):47-54.

[3] 基于新型统一电能质量控制器的光伏电站故障穿越技术

滕欣元， 葛雪峰， 张宸宇，等. 基于新型统一电能质量控制器的光伏电站故障穿越技术[J]. 电力工程技术, 2019, 38(5): 55-60，98.

TENG Xinyuan, GE Xuefeng, ZHANG Chenyu,et al. A novel unified power quality conditioner for the fault ride-through operation of photovoltaic power station [J]. Electric Power Engineering Technology, 2019, 38(6): 55-60，98.

**电网运行与控制**

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方逸波， 袁晓冬， 费骏韬，等. 基于需求侧响应的配电网储能容量识别[J]. 电力工程技术, 2019, 38(5): 61-68.

FANG Yibo, YUAN Xiaodong, FEI Juntao, et al. Capacity identification of energy storage in distribution grids based on demand response [J]. Electric Power Engineering Technology, 2019, 38(6): 61-68.

[2] 计及非关键负载接入量的电力弹簧配置方法

吕潇， 吴薛红， 马刚. 计及非关键负载接入量的电力弹簧配置方法[J]. 电力工程技术, 2019, 38(5): 69-76.

LYU Xiao, WU Xuehong, MA Gang. A configuration method of electric spring considering non-critical load access [J]. Electric Power Engineering Technology, 2019, 38(6): 69-76.

[3] 电动汽车群自组织协调下垂调频控制方法

陈仲伟， 欧名勇， 谭玉东，等. 电动汽车群自组织协调下垂调频控制方法[J]. 电力工程技术, 2019, 38(5): 77-83.

CHEN Zhongwei, OU Mingyong, TAN Yudong,et al. Self-organized droop frequency regulation method for EV aggregator [J]. Electric Power Engineering Technology, 2019, 38(6): 77-83.

[4] 分层接入下绝对最小滤波器不满足回降功率策略研究

黄志岭， 邹强， 卢东斌. 分层接入下绝对最小滤波器不满足回降功率策略研究[J]. 电力工程技术, 2019, 38(5): 84-92.

HUANG Zhiling, ZOU Qiang, LU Dongbin. DC power runback control strategy for unfulfilled absolute minimum filter of UHVDC with hierarchical connection mode [J]. Electric Power Engineering Technology, 2019, 38(6): 84-92.

[5] 基于EEMD-GABP的某地区短期负荷预测研究

郭威麟， 蒋晓艳， 罗意，等. 基于EEMD-GABP的某地区短期负荷预测研究[J]. 电力工程技术, 2019, 38(5): 93-98.

GUO Weilin, JIANG Xiaoyan, LUO Yi, et al. Short-term load forecasting in a certain area based on EEMD-GABP [J]. Electric Power Engineering Technology, 2019, 38(6): 93-98.

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[1] 基于信息触发的智能变电站保护功能判定方法研究

宋福海. 基于信息触发的智能变电站保护功能判定方法研究[J]. 电力工程技术, 2019, 38(6): 99-106.

SONG Fuhai. Decision method of protection function of intelligent substation based on information triggering [J]. Electric Power Engineering Technology, 2019, 38(6): 99-106.

[2] 基于微型燃气轮机的多微源直流微网主从协调控制

于海， 孙亮， 岳云凯，等. 基于微型燃气轮机的多微源直流微网主从协调控制[J]. 电力工程技术, 2019, 38(6): 107-114.

YU Hai, SUN Liang, YUE Yunkai,et al. Master-slave coordinated control of multi-micro-source DC microgrid based on micro turbine [J]. Electric Power Engineering Technology, 2019, 38(6): 107-114.

[3] 基于随机森林的电动汽车充电行为聚类技术研究

刘亚丽，李国栋，刘云，等. 基于随机森林的电动汽车充电行为聚类技术研究[J]. 电力工程技术, 2019, 38(6): 115-121.

LIU Yali, LI Guodong, LIU Yun, et al. Clustering technology of electric vehicle charging behavior based on Random Forest [J]. Electric Power Engineering Technology, 2019, 38(6): 115-121.

[4] 含海水淡化系统的海岛微电网经济运行优化

刘俊， 王维俊， 张国平. 含海水淡化系统的海岛微电网经济运行优化[J]. 电力工程技术, 2019, 38(6): 122-129.

LIU Jun, WANG Weijun, ZHANG Guoping. Economic operation optimization of island microgrid with seawater desalination system [J]. Electric Power Engineering Technology, 2019, 38(6): 122-129.

[5] 基于VSS-CDFE的三相非平衡电力系统频率无偏估计

姚军， 冯伟， 祁晖，等. 基于VSS-CDFE的三相非平衡电力系统频率无偏估计[J]. 电力工程技术, 2019, 38(6): 130-136.

YAO Jun, QI Hui, FENG Wei,et al. Unbalanced three-phase power systems frequency estimation based on CDFE algorithm [J]. Electric Power Engineering Technology, 2019, 38(6): 130-136.

[6] 水风储微电网电源容量的优化配置

陈永进， 吴杰康， 翁兴航，等. 水风储微电网电源容量的优化配置[J]. 电力工程技术, 2019, 38(6): 137-146.

CHEN Yongjin, WU Jiekang, WENG Xinghang, et al. Optimal sizing of microgrids with wind-hydropower-energy storage [J]. Electric Power Engineering Technology, 2019, 38(6): 137-146.

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潘超， 葛佳柔， 刘天舒，等. 单相变压器首端匝间短路电磁振动特性研究[J]. 电力工程技术, 2019, 38(6): 147-153,166.

PAN Chao, GE Jiarou, LIU Tianshu,et al. The electromagnetic vibration characteristics of the first end of single-phase transformer [J]. Electric Power Engineering Technology, 2019, 38(6): 147-153,166.

[2] 新一代300 Mvar调相机失磁运行特性及保护研究

刘春晖， 钱文晓， 杨朋威，等. 新一代300 Mvar调相机失磁运行特性及保护研究[J]. 电力工程技术, 2019, 38(6): 154-159.

LIU Chunhui, QIAN Wenxiao, YANG Pengwei, et al. Loss-of-excitation operation of new generation 300 Mvar synchronous condenser and its relay protection [J]. Electric Power Engineering Technology, 2019, 38(6): 154-159.

[3] 基于脉冲功率技术的高压电场感应取能设计

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WANG Bingzhuo, SI Jianfei, YU Chunfeng. A design of high voltage electric-field induction energy-acquisition based on pulsed power technology [J]. Electric Power Engineering Technology, 2019, 38(6): 160-166.

[4] 针对碳化硅器件的高频逆变器缓冲电路设计

卞正达， 黄天一， 徐长福，等. 针对碳化硅器件的高频逆变器缓冲电路设计[J]. 电力工程技术, 2019, 38(6): 167-172.

BIAN Zhengda, HUANG Tianyi, XU Changfu,et al. Spikes and oscillation suppression methods based on SiC devices in high frequency inverter [J]. Electric Power Engineering Technology, 2019, 38(6): 167-172.

[5] 基于DC/DC电路的无线充电系统功率稳定控制方法

杨晓梅， 王金虎， 费益军，等. 基于DC/DC电路的无线充电系统功率稳定控制方法[J]. 电力工程技术, 2019, 38(6): 173-178.

YANG Xiaomei, WANG Jinhu, FEI Yijun, et al. Power stability control method of wirelesspower transfer system based on DC/DC circuit [J]. Electric Power Engineering Technology, 2019, 38(6): 173-178.

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[2] 基于灰箱理论的配电房温度变化预测模型研究

郝方舟， 赵慧， 赵洪山，等. 基于灰箱理论的配电房温度变化预测模型研究[J]. 电力工程技术, 2019, 38(6): 187-192.

HAO Fangzhou, ZHAO Hui , ZHAO Hongshan, et al. Temperature change prediction model of power distribution room based on grey box theory [J]. Electric Power Engineering Technology, 2019, 38(6): 187-192.

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[1] 计及雷击情况的基于PDT-SVM暂降源辨识方法研究

李陶然， 张宸宇， 史明明，等. 计及雷击情况的基于PDT-SVM暂降源辨识方法研究[J]. 电力工程技术, 2019,38(5):2-7.

LI Taoran , ZHANG Chenyu , SHI Mingming , et al. PDT-SVM-based sag source identification considering lightning strike [J]. Electric Power Engineering Technology, 2019, 38(5):2-7.

[2] 基于TensorFlow框架的有源配电网深度学习故障定位方法

刘成民， 戴中坚， 陈轩. 基于TensorFlow框架的有源配电网深度学习故障定位方法[J]. 电力工程技术, 2019,38(5):8-15.

LIU Chengming, DAI Zhongjian, CHEN Xuan. A fault location method for active distribution network based on Tensorflow deep learning [J]. Electric Power Engineering Technology, 2019, 38(5):8-15.

[3] 基于AMC算法的变电站巡检机器人地图创建与定位

谢林枫， 蒋超， 孙秋芹，等. 基于AMC算法的变电站巡检机器人地图创建与定位[J]. 电力工程技术, 2019,38(5):16-23.

XIE Linfeng, JIANG Chao, SUN Qiuqin, et al. The global map's creating and positioning of substation inspection robot based on adaptive Monte Carlo particle filter algorithm [J]. Electric Power Engineering Technology, 2019, 38(5):16-23.

[4] 基于WD-CS-SVM的超短期风电功率组合预测

刘家敏， 李聪睿， 周志浩，等. 基于WD-CS-SVM的超短期风电功率组合预测[J]. 电力工程技术, 2019,38(5):24-29.

LIU Jiamin, LI Congrui, ZHOU Zhihao, et al. Combination ultra-short-term prediction of wind power based on WD-CS-SVM [J]. Electric Power Engineering Technology, 2019, 38(5):24-29.

[5] 基于无人机图像与迁移学习的线路绝缘子状态评价方法

罗建军， 刘振声， 龚翔，等. 基于无人机图像与迁移学习的线路绝缘子状态评价方法[J]. 电力工程技术, 2019,38(5):30-36.

LUO Jianjun, LIU Zhensheng, GONG Xiang, et al. Insulator state evaluation method based on UAV image and migration learning [J]. Electric Power Engineering Technology, 2019, 38(5):30-36.

[6] 基于GA-BPNN的多频超声波变压器油密度检测研究

赵耀洪， 杨壮， 钱艺华 ，等. 基于GA-BPNN的多频超声波变压器油密度检测研究[J]. 电力工程技术, 2019,38(5):37-41.

ZHAO Yaohong, YANG Zhuang, QIAN Yihua， et al. Transformer oil density based on GA-BPNN method and multi-frequency ultrasound [J]. Electric Power Engineering Technology, 2019, 38(5):37-41.

[7] 基于融合极限学习机的局部放电模式识别

潘志新， 刘利国， 钱程，等. 基于融合极限学习机的局部放电模式识别[J]. 电力工程技术, 2019,38(5):42-48.

PAN Zhixin, LIU Liguo, QIAN Cheng, et al. Pattern recognition of partial discharge based on fusion extreme learning machine [J]. Electric Power Engineering Technology, 2019, 38(5):42-48.

[8] 基于贝叶斯网络的电力客户停电敏感度预测

吕朋朋， 陶晓峰， 徐致光，等. 基于贝叶斯网络的电力客户停电敏感度预测[J]. 电力工程技术, 2019,38(5):49-54.

LYU Pengpeng, TAO Xiaofeng, XU Zhiguang, et al. Prediction of power customer outage sensitivity based on Bayesian network [J]. Electric Power Engineering Technology, 2019, 38(5):49-54.

**专论与综述**

[1] 特高压杆塔的非均匀传输线模型

余敬秋， 徐政. 特高压杆塔的非均匀传输线模型[J]. 电力工程技术, 2019,38(5):55-62.

YU Jingqiu, XU Zheng. Non-uniform transmission line model of UHV tower [J]. Electric Power Engineering Technology, 2019, 38(5):55-62.

[2] 电网系统保护在线监视研究及典型应用

王轶禹， 王晶， 冯长有，等. 电网系统保护在线监视研究及典型应用[J]. 电力工程技术, 2019,38(5):63-70.

WANG Yiyu, WANG Jing, FENG Changyou, et al. Online monitoring for large power system protection and its optimization strategy [J]. Electric Power Engineering Technology, 2019, 38(5):63-70.

[3] 考虑主动响应的电动汽车充电站-配电网协同规划

张娅婷， 陈中， 段然，等. 考虑主动响应的电动汽车充电站-配电网协同规划[J]. 电力工程技术, 2019,38(5):71-77.

ZHANG Yating, CHEN Zhong, DUAN Ran, et al. Collaborative planning of electric vehicle charging station-distribution network considering active response [J]. Electric Power Engineering Technology, 2019, 38(5):71-77.

**电网运行与控制**

[1] 无差拍优化T型三电平APF模型预测电流控制

刘广思 ，肖先勇， 刘建鑫. 无差拍优化T型三电平APF模型预测电流控制[J]. 电力工程技术, 2019,38(5):78-84.

LIU Guangsi, XIAO Xianyong, LIU Jianxin. Model predictive current control algorithm with deadbeat optimization for T-type three-level APF [J]. Electric Power Engineering Technology, 2019, 38(5):78-84.

[2] 电力系统频率响应的改进模型与参数估计

李东辉， 臧晓明， 鞠平，等. 电力系统频率响应的改进模型与参数估计[J]. 电力工程技术, 2019,38(5):85-90.

LI Donghui, ZANG Xiaoming , JU Ping ,et al. The improved model and parameter estimation for frequency response of power system [J]. Electric Power Engineering Technology, 2019, 38(5):85-90.

[3] 经VSC-HVDC系统并网的风电场反馈线性化滑模控制

鲁裕婷， 都洪基. 经VSC-HVDC系统并网的风电场反馈线性化滑模控制[J]. 电力工程技术, 2019,38(5):91-97.

LU Yuting, DU Hongji. Feedback linearization sliding mode control of wind farmconnected with VSC-HVDC system [J]. Electric Power Engineering Technology, 2019, 38(5):91-97.

[4] 基于综合等效灵敏度的短路电流抑制措施确定方法

傅旭， 田旭， 李富春 ，等. 基于综合等效灵敏度的短路电流抑制措施确定方法[J]. 电力工程技术, 2019,38(5):98-106.

LU Yuting, DU Hongji. Feedback linearization sliding mode control of wind farmconnected with VSC-HVDC system [J]. Electric Power Engineering Technology, 2019, 38(5):98-106.

[5] 基于MIV-PCA的超短期风电功率预测模型优化

徐龙博， 王伟， 丁煜函，等. 基于MIV-PCA的超短期风电功率预测模型优化[J]. 电力工程技术, 2019,38(5):107-113，137.

XU Longbo, WANG Wei, DING Yuhan,et al. Optimization of ultra-short-term wind power predicting model based on MIV-PCA [J]. Electric Power Engineering Technology, 2019, 38(5): 107-113，137.

[6] 环境激励下电力系统外在表征及振荡识别方法研究

方连航， 刘红岩， 梁钰，等. 环境激励下电力系统外在表征及振荡识别方法研究[J]. 电力工程技术, 2019,38(5):114-120.

FANG Lianhang, LIU Hongyan, LIANG Yu, et al. Characteristics of electromechanical responses and identification undergoing slight ambient excitation [J]. Electric Power Engineering Technology, 2019, 38(5): 114-120.

**智能电网与微网**

[1] 考虑可再生能源消纳的CCHP微能源网优化配置模型

陈灵敏， 吴杰康， 唐惠玲，等. 考虑可再生能源消纳的CCHP微能源网优化配置模型[J]. 电力工程技术, 2019,38(5):121-129.

CHEN Lingmin, WU Jiekang, TANG Huiling,et al. Optimal allocation model of the micro-energy grid with CCHP considering renewable energy consumption [J]. Electric Power Engineering Technology, 2019, 38(5):121-129.

[2] 基于TOPSIS法的充电机运行性能组合赋权评价方法

刘亚丽，王旭东，赵迎春，等. 基于TOPSIS法的充电机运行性能组合赋权评价方法[J]. 电力工程技术, 2019,38(5):130-137.

LIU Yali, WANG Xudong, ZHAO Yingchun, et al. Optimal allocation model of the micro-energy grid with CCHP considering renewable energy consumption [J]. Electric Power Engineering Technology, 2019, 38(5):130-137.

[3] 基于同步波形的配电网故障诊断技术综述

徐铭铭， 冯光， 张林林，等. 基于同步波形的配电网故障诊断技术综述[J]. 电力工程技术, 2019,38(5):138-146.

XU Mingming, FENG Guang, ZHANG Linlin, et al. Distribution network fault diagnosis technology based on synchronous waveforms [J]. Electric Power Engineering Technology, 2019, 38(5):138-146.

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[1] 振荡冲击及交流电压下绝缘子表面金属微粒放电特性研究

高旭泽， 段然， 谭笑. 振荡冲击及交流电压下绝缘子表面金属微粒放电特性研究[J]. 电力工程技术, 2019,38(5):147-156.

GAO Xuze, DUAN Ran, TAN Xiao. Discharge characteristics of metal particles on insulatorsurface under oscillation impulse and AC voltage [J]. Electric Power Engineering Technology, 2019, 38(5):147-156.

[2] 热历史过程对XLPE电缆热历史温度的影响研究

李欢， 翟双， 陈杰，等. 热历史过程对XLPE电缆热历史温度的影响研究[J]. 电力工程技术, 2019,38(5):157-163.

LI Huan, ZHAI Shuang , CHEN Jie,et al. Influence of thermal history process on the thermal history temperature of XLPE cable [J]. Electric Power Engineering Technology, 2019, 38(5):157-163.

[3] 热老化前后LDPE/SiO2纳米复合材料空间电荷积聚分析

李玉栋， 张占喜， 肖坤，等. 热老化前后LDPE/SiO2纳米复合材料空间电荷积聚分析[J]. 电力工程技术, 2019,38(5):164-169.

LI Yudong, ZHANG Zhanxi, XIAO Kun, et al. Space charge accumulation behavior of Polyethylene/Silica Nanocomposites before and after Thermal Aging [J]. Electric Power Engineering Technology, 2019, 38(5):164-169.

**技术探讨**

[1] 基于磁通分析的配电网PT二次消谐方法研究

王洪林， 王凯， 张琦雪，等. 基于磁通分析的配电网PT二次消谐方法研究[J]. 电力工程技术, 2019,38(5):170-176.

WANG Honglin, WANG Kai, ZHANG Qixue,et al. Secondary resonance elimination of distribution network based on flux variation [J]. Electric Power Engineering Technology, 2019, 38(5):170-176.

[2] 一种基于J-A磁滞模型的变压器在线运行监测方法

方园， 施仁毅， 夏家辉，等. 一种基于J-A磁滞模型的变压器在线运行监测方法[J]. 电力工程技术, 2019,38(5):177-184.

FANG Yuan, SHI Renyi, XIA Jiahui, et al. Transformer online operation monitoring method based on J-A hysteresis model [J]. Electric Power Engineering Technology, 2019, 38(5):177-184.

[3] 电网三相不平衡的度量与治理综述

蔡欣灵， 郝思鹏. 电网三相不平衡的度量与治理综述[J]. 电力工程技术, 2019,38(5):185-192.

CAI Xinling, HAO Sipeng. Review of the measurement and control of three-phase unbalance [J]. Electric Power Engineering Technology, 2019, 38(5):185-192.

**第4期**

**交直流混合主动配电网规划与运行关键技术专题**

[1] 基于MMC的中压直流配电网极间短路故障保护策略

吕家乐， 吴在军， 窦晓波，等. 基于MMC的中压直流配电网极间短路故障保护策略[J]. 电力工程技术, 2019,38(4):2-9.

LYU Jiale, WU Zaijun, DOU Xiaobo, et al. Bipolar short circuit protection strategy for MMC based medium voltage DC distribution network [J]. Electric Power Engineering Technology, 2019, 38(4):2-9.

[2] 交直流配电网的交换功率灵活性提升方法研究

程亮， 黄河， 孙琦润，等. 交直流配电网的交换功率灵活性提升方法研究[J]. 电力工程技术, 2019,38(4):10-17.

CHENG Liang， HUANG He， SUN Qirun， et al. Method of improving exchange power flexibility between AC/DC distribution network and transmission network [J]. Electric Power Engineering Technology, 2019, 38(4):10-17.

[3] 基于PSO-SVM的直流配电网电能质量扰动辨识

吴建章， 沙浩源， 张宸宇，等. 基于PSO-SVM的直流配电网电能质量扰动辨识[J]. 电力工程技术, 2019,38(4):18-25.

WU Jianzhang, SHA Haoyuan, ZHANG Chenyu, et al. Identification of power quality disturbance in DC distribution network based on PSO-SVM [J]. Electric Power Engineering Technology, 2019, 38(04):18-25.

[4] 交直流混合配电网分布式无功电压互动控制策略

耿少博， 顾乔根， 常风然，等. 交直流混合配电网分布式无功电压互动控制策略[J]. 电力工程技术, 2019,38(04):26-33.

GENG Shaobo, GU Qiaogen, CHANG Fengran,et al. Distributed reactive voltage and voltage interactive control strategy for AC/DC hybrid distribution network [J]. Electric Power Engineering Technology, 2019, 38(4):26-33.

[5] 面向主动配电网的统一电能质量控制器补偿策略研究

张少凡， 高强， 华煌圣，等. 面向主动配电网的统一电能质量控制器补偿策略研究[J]. 电力工程技术, 2019,38(04):34-41.

ZHANG Shaofan，GAO Qiang，HUA Huangsheng，et al. Compensation strategy of unified power quality controller for active distribution network [J]. Electric Power Engineering Technology, 2019, 38(04):34-41.

[6] 主动配电网自动电压控制系统架构设计

邹大云， 陈根军， 徐晓亮，等. 主动配电网自动电压控制系统架构设计[J]. 电力工程技术, 2019,38(04):42-47.

ZOU Dayun, CHEN Genjun, XU Xiaoliang, et al. Architecture design of automatic voltage control system for active distribution network[J]. Electric Power Engineering Technology, 2019, 38(04):42-47.

[7] 考虑电能替代负荷接入的配电网鲁棒重构优化

杨烁， 杨卫红， 刘艳茹，等. 考虑电能替代负荷接入的配电网鲁棒重构优化[J]. 电力工程技术, 2019,38(04):48-55.

YANG Shuo, YANG Weihong, LIU Yanru, et al. Robust network reconfiguration optimization in distribution network with power energy alternatives integration [J]. Electric Power Engineering Technology, 2019, 38(04):48-55.

**专论与综述**

[1] 张北柔直电网金属回线故障监测研究

陈玉林， 张建锋， 虞晓阳，等. 张北柔直电网金属回线故障监测研究[J]. 电力工程技术, 2019,38(04):56-61.

CHEN Yulin, ZHANG Jianfeng, YU Xiaoyang, et al. Fault monitoring research of the metallic return line in Zhangbei VSC-HVDC grid [J]. Electric Power Engineering Technology, 2019, 38(04):56-61.

[2] 电力无线专网频谱监测系统规划及评估方法研究

姚继明， 张浩， 韦磊 ，等. 电力无线专网频谱监测系统规划及评估方法研究[J]. 电力工程技术, 2019,38(04):62-67.

YAO Jiming, ZHANG Hao, WEI Lei, et al. Planning and evaluation method of spectrum monitoring system for power wireless private network [J]. Electric Power Engineering Technology, 2019, 38(04):62-67.

[3] 规模化储能系统参与电网调频的控制策略研究

于昌海， 捂吴继平， 杨海晶，等. 规模化储能系统参与电网调频的控制策略研究[J]. 电力工程技术, 2019,38(04):68-73，105.

YU Changhai, WU Jiping, YANG Haijing, et al. Frequency regulation strategy for power grid incorporating large-scale energy storage [J]. Electric Power Engineering Technology, 2019, 38(04):68-73，105.

**电网运行与控制**

[1] 暂态零序电流波形差异的单相接地故障选线

梁睿， 叶开， 彭楠，等. 暂态零序电流波形差异的单相接地故障选线[J]. 电力工程技术, 2019,38(04):74-79.

LIANG Rui, YE Kai , PENG Nan , et al. Faulty line selection of single phase grounding based on transient zero sequence current waveform difference [J]. Electric Power Engineering Technology, 2019, 38(04):74-79.

[2] 基于RetinaNet和类别平衡采样方法的销钉缺陷检测

王凯， 王健， 刘刚 ，等. 基于RetinaNet和类别平衡采样方法的销钉缺陷检测[J]. 电力工程技术, 2019,38(04):80-85.

WANG Kai, WANG Jian , LIU Gang , et al. Defect detection of pins based on RetinaNet and class balanced sampling methods [J]. Electric Power Engineering Technology, 2019, 38(04): 80-85.

[3] 考虑动态增容效应的陆上风电场送出线路截面优化方法

张成炜， 林瑞宗， 张宁宇. 考虑动态增容效应的陆上风电场送出线路截面优化方法[J]. 电力工程技术, 2019,38(04):86-91.

ZHANG Chengwei, LIN Ruizong, ZHANG Ningyu. Cross-section optimization method of overhead transmission lines for onshore wind farms considering dynamic ampacity increasing [J]. Electric Power Engineering Technology, 2019, 38(04): 86-91.

[4] 实时电价下源网荷各侧收益的优化研究

苑吉河， 冯德伦， 张曦，等. 实时电价下源网荷各侧收益的优化研究[J]. 电力工程技术, 2019, 38(04): 92-98.

YUAN Jihe, FENG Delun, ZHANG Xi,et al. Optimization of profits on source network load under real-time electricity price [J]. Electric Power Engineering Technology, 2019, 38(04): 92-98.

[5] 按串集成的分布式快速断路器失灵及死区保护系统

朱晓彤， 戴光武， 赵青春，等. 按串集成的分布式快速断路器失灵及死区保护系统[J]. 电力工程技术, 2019, 38(04): 99-105.

ZHU Xiaotong, DAI Guangwu, ZHAO Qingchun, et al. Distributed fast breaker failure and dead zone protection system by string integrated [J]. Electric Power Engineering Technology, 2019, 38(04): 99-105.

[6] 改进的零注入约束双线性WLAV状态估计

胥峥， 周洪益， 沈甜甜，等. 改进的零注入约束双线性WLAV状态估计[J]. 电力工程技术, 2019, 38(04): 106-111.

XU Zheng, ZHOU Hongyi, SHEN Tiantian,et al. Modified bilinear WLAV state estimation with zero injections [J]. Electric Power Engineering Technology, 2019, 38(04): 106-111.

[7] 基于谐波电压补偿的混合直流连续换相失败抑制策略

何晓峰， 李成翔， 夏成军，等. 基于谐波电压补偿的混合直流连续换相失败抑制策略[J]. 电力工程技术, 2019, 38(04): 112-117.

HE Xiaofeng, LI Chengxiang , XIA Chengjun, et al. Control strategy to suppress hybrid HVDC continuous commutation failure by harmonic voltage compensatio [J]. Electric Power Engineering Technology, 2019, 38(04): 112-117.

**智能配网与微网**

[1] 基于负荷矩模型的油田配电网电压暂降源定位方法

孙东， 仉志华， 邹兵，等. 基于负荷矩模型的油田配电网电压暂降源定位方法[J]. 电力工程技术, 2019,38(04):118-123.

SUN Dong, ZHANG Zhihua, ZOU Bing, et al. Positioning method for voltage sag source of oilfield distribution network based on load moment model [J]. Electric Power Engineering Technology, 2019, 38(04):118-123.

[2] 基于互近似熵的电压暂降波形匹配方法

李丹奇， 史明明， 袁晓冬，等. 基于互近似熵的电压暂降波形匹配方法[J]. 电力工程技术, 2019,38(04):124-130.

LI Danqi, SHI Mingming , YUAN Xiaodong , et al. Voltage sag waveform matching method based on cross approximate entropy [J]. Electric Power Engineering Technology, 2019, 38(04):124-130.

[3] 基于CVaR分析的新能源配电网电压风险评估模型

吴帆， 邬智江， 吴杰康，等. 基于CVaR分析的新能源配电网电压风险评估模型[J]. 电力工程技术, 2019,38(04):131-137.

WU Fan, WU Zhijiang, WU Jiekang, et al. Risk assessment model for distribution network with renewable energy based on CVaR analysis [J]. Electric Power Engineering Technology, 2019, 38(04):131-137.

**高电压技术**

[1] 复合绝缘子界面缺陷对电场分布特性影响的仿真研究

江渺， 李黎， 华奎，等. 复合绝缘子界面缺陷对电场分布特性影响的仿真研究[J]. 电力工程技术, 2019,38(04):138-144.

JIANG Miao, LI Li, HUA Kui, et al. Influence of interface defect on the electric field distribution of composite insulator [J]. Electric Power Engineering Technology, 2019, 38(04):138-144.

[2] 基于有限元法的换流阀水路系统电场分析

吕茵， 王慧泉， 周文青，等. 基于有限元法的换流阀水路系统电场分析[J]. 电力工程技术, 2019,38(04):145-151.

LYU Yin, WANG Huiquan, ZHOU Wenqing, et al. Electric field of valve cooling system in thyristor valve based on finite element method [J]. Electric Power Engineering Technology, 2019, 38(04):145-151.

[3] 基于尺度-能量熵特征对的特高频局部放电辨识方法

罗沙， 田宇， 李宾宾，等. 基于尺度-能量熵特征对的特高频局部放电辨识方法[J]. 电力工程技术, 2019,38(04):152-158.

LUO Sha, TIAN Yu, LI Binbin, et al. Pattern recognition of ultra-high frequency partial discharge by using scale parameters-energy entropy characteristic pairs [J]. Electric Power Engineering Technology, 2019, 38(04):152-158.

**技术探讨**

[1] 一种高可靠性智能型避雷器在线监测系统的设计

李海涛， 鞠平， 须雷，等. 一种高可靠性智能型避雷器在线监测系统的设计[J]. 电力工程技术, 2019,38(04):159-164.

LI Haitao, JU Ping, XU Lei, et al. Design of a high reliable intelligent on-line monitoring system for metal oxide arrester [J]. Electric Power Engineering Technology, 2019, 38(04):159-164.

[2] 能量回馈单元中双载波SPWM环流抑制研究

吕广强， 顾星. 能量回馈单元中双载波SPWM环流抑制研究[J]. 电力工程技术, 2019,38(04):165-170.

LYU Guangqiang, GU Xing. Dual-carried wave SVPWM in circuiting-current suppression of energy feedback unit [J]. Electric Power Engineering Technology, 2019, 38(04):165-170.

[3] 考虑故障切除时间的暂态扭矩放大风险评估方法

程欣. 考虑故障切除时间的暂态扭矩放大风险评估方法[J]. 电力工程技术, 2019,38(04):171-176.

CHENG Xin. Risk-based security assessment method considering fault clearing time [J]. Electric Power Engineering Technology, 2019, 38(04):171-176.

**第3期**

**名家观点**

[1] 输配电价监管下供电公司投资规模仿真模型研究

曾鸣， 怀文明， 叶嘉雯，等. 输配电价监管下供电公司投资规模仿真模型研究[J]. 电力工程技术, 2019,38(03):1-7.

ZENG Ming, HUAI Wenming, YE Jiawen, et al. Research on investment scale simulation model of power supply company under transmission and distribution price regulation [J]. Electric Power Engineering Technology, 2019, 38(03):1-7.

**专论与综述**

[1] 轨道电路内屏蔽电缆多回路模型与其参数计算

谭瑞娟， 阳晋， 庞福滨，等. 轨道电路内屏蔽电缆多回路模型与其参数计算[J]. 电力工程技术, 2019,38(03):8-12，50.

TAN Ruijuan, YANG Jin, PANG Fubing, et al. A multi-loop model and its parameters calculation for the cable with inner screens of the track circuit [J]. Electric Power Engineering Technology, 2019, 38(03):8-12，50.

[2] 家庭小区型多微网典型特征及工程设计

黄钰琪， 杨苹， 刘泽健. 家庭小区型多微网典型特征及工程设计[J]. 电力工程技术, 2019,38(03):13-20.

HUANG Yuqi, YANG Ping, LIU Zejian. Typical characteristics and engineering design of residential multi-microgrids [J]. Electric Power Engineering Technology, 2019, 38(03):13-20.

[3] 非等分布置的特高压直流输电接地极导流系统设计

李文津， 赵爱军， 吴小东. 非等分布置的特高压直流输电接地极导流系统设计[J]. 电力工程技术, 2019,38(03):21-26.

LI Wenjin, ZHAO Aijun, WU Xiaodong. Current guiding system design of electrode for UHVDC transmission with non-equally divided scheme [J]. Electric Power Engineering Technology, 2019, 38(03):21-26.

**配网规划与控制专题**

[1] 基于IGDT的网架重构过程中风电场出力调度

刘昌盛，谢云云，王晓丰，等. 基于IGDT的网架重构过程中风电场出力调度[J]. 电力工程技术, 2019,38(03):27-33.

LIU Changsheng, XIE Yunyun, WANG Xiaofeng, et al. IGDT based power dispatch for wind farms participating in power system restoration [J]. Electric Power Engineering Technology, 2019, 38(03):27-33.

[2] SVM在中压配网停电事件补全中的应用研究

张波， 肖坚红， 梁晓伟，等. SVM在中压配网停电事件补全中的应用研究[J]. 电力工程技术, 2019,38(03):34-40.

ZHANG Bo, XIAO Jianhong, LIANG Xiaowei, et al. Research and practice of power outage event completion method based on SVM for mv distribution network [J]. Electric Power Engineering Technology, 2019, 38(03):34-40.

[3] 基于MPC的主动配电网多级电压控制

韩华春， 窦晓波， 李强，等. 基于MPC的主动配电网多级电压控制[J]. 电力工程技术, 2019,38(03):41-50.

HAN Huachun, DOU Xiaobo, LI Qiang, et al. Multi-level voltage control in active distribution network based on model predictive control [J]. Electric Power Engineering Technology, 2019, 38(03):41-50.

[4] 基于最大离差与系数熵的配网规划评估方法

尹晓敏， 王华莹， 丁吉，等. 基于最大离差与系数熵的配网规划评估方法[J]. 电力工程技术, 2019,38(03):51-59.

YIN Xiaomin, WANG Huaying, DING Ji, et al. Evaluation method of distribution gridplanning based on maximum deviation and coefficient entropy [J]. Electric Power Engineering Technology, 2019, 38(03):51-59.

**电网运行与控制**

[1] 抑制换相失败期间送端电网过电压的控制策略研究

刘琳， 雷霄， 孔祥平，等. 抑制换相失败期间送端电网过电压的控制策略研究[J]. 电力工程技术, 2019,38(03):60-66.

LEI Xiao, LIU Lin, KONG Xiangping, et al. Research on the control strategy for suppressing overvoltage of sending grid during commutation failure [J]. Electric Power Engineering Technology, 2019, 38(03):60-66.

[2] 基于主导轨迹断面阻尼比灵敏度的仿真关键参数诊断

李峰， 彭慧敏， 李威，等. 基于主导轨迹断面阻尼比灵敏度的仿真关键参数诊断[J]. 电力工程技术, 2019,38(03):67-73.

LI feng, PENG Huimin, Li Wei, et al. Simulation parameter diagnosis based on the dominant trajectory section damping ratio sensitivity [J]. Electric Power Engineering Technology, 2019, 38(03):67-73.

[3] 大电网大规模稳控系统广域测试接口装置的设计与应用

郭琦， 夏尚学， 朱益华，等. 大电网大规模稳控系统广域测试接口装置的设计与应用[J]. 电力工程技术, 2019,38(03):74-79.

GUO Qi, XIA Shangxue, ZHU Yihua, et al. Design and application of interface device for wide area remote testing of large scale power system security and stability control system [J]. Electric Power Engineering Technology, 2019, 38(03):74-79.

[4] 不平衡电压下VSG无锁相环并网及运行控制策略

奚鑫泽， 徐志， 洪灏灏，等. 不平衡电压下VSG无锁相环并网及运行控制策略[J]. 电力工程技术, 2019,38(03):80-86.

XI Xinze, XU Zhi, HONG Haohao, et al. Control strategies of grid-connection and operation based on virtual synchronous generator without phase-lock loop under unbalanced grids [J]. Electric Power Engineering Technology, 2019, 38(03):80-86.

[5] 一种基于DSSC集中控制的实时优化分配方法

陈汹， 赵静波， 封科，等. 一种基于DSSC集中控制的实时优化分配方法[J]. 电力工程技术, 2019,38(03):87-92.

CHEN Xiong, ZHAO Jingbo, FENG Ke, et al. A real-time optimal allocation method for DSSC based on centralized control [J]. Electric Power Engineering Technology, 2019, 38(03):87-92.

[6] 基于加权模糊时序Petri网络的电网故障诊断模型

戢李刚， 陈昊， 谭风雷. 基于加权模糊时序Petri网络的电网故障诊断模型[J]. 电力工程技术, 2019,38(03):93-99.

JI Ligang, CHEN Hao, TAN Fenglei. A model of fault diagnosis for power system based on time sequence fuzzy Petri net [J]. Electric Power Engineering Technology, 2019, 38(03):93-99.

**智能配网与微网**

[1] 计及用户舒适度的电热水器多目标优化控制策略

武媚， 包宇庆， 张金龙，等. 计及用户舒适度的电热水器多目标优化控制策略[J]. 电力工程技术, 2019,38(03):100-107.

WU Mei, BAO Yuqing, ZHANG Jinlong, et al. Optimized control strategy of the electric water heater considering user comfort [J]. Electric Power Engineering Technology, 2019, 38(03):100-107.

[2] 新电改下考虑微网和多元负荷的配网效益评价研究

叶斌， 王绪利， 马静，等. 新电改下考虑微网和多元负荷的配网效益评价研究[J]. 电力工程技术, 2019,38(03):108-114.

YE Bin, WANG Xuli, MA Jing, et al. Research on benefit evaluation of distribution network considering microgrid and multiple loads under new electricity reform [J]. Electric Power Engineering Technology, 2019, 38(03):108-114.

[3] 基于浮动门槛值的改进电流互感器饱和识别方法研究

张凌浩， 刘建坤， 卜京. 基于浮动门槛值的改进电流互感器饱和识别方法研究[J]. 电力工程技术, 2019,38(03):115-120.

ZHANG Linghao, LIU Jiankun, BU Jing. An improved method of identifying the CT's saturation considering line parameters [J]. Electric Power Engineering Technology, 2019, 38(03):115-120.

[4] 基于最小幅值搜索的电压暂降监测点优化配置

谢伟伦， 薛峰， 黄志威. 基于最小幅值搜索的电压暂降监测点优化配置[J]. 电力工程技术, 2019,38(03):121-126.

XIE Weilun, XUE Feng, HUANG Zhiwei. An optimal allocation method of voltage sag monitoring nodes based on minimum magnitude search [J]. Electric Power Engineering Technology, 2019, 38(03):121-126.

**高电压技术**

[1] 短时大电流入地时管道阻性耦合电压计算方法研究

梁玄鸿， 余骏阳， 李后英. 短时大电流入地时管道阻性耦合电压计算方法研究[J]. 电力工程技术, 2019,38(03):127-133.

LIANG Xuanhong, YU Junyang, LI Houying. Calculation method of resistive coupling voltage of buriedsteel pipelines in short-term high current [J]. Electric Power Engineering Technology, 2019, 38(03):127-133.

[2] 考虑非线性极化的接地极对管道泄漏电流计算及验证

刘元庆， 曹方圆， 谭波，等. 考虑非线性极化的接地极对管道泄漏电流计算及验证[J]. 电力工程技术, 2019,38(03):134-139.

LIU Yuanqing, CAO Fangyuan, TAN Bo, et al. Calculation and verification of pipeine leakage current considering the influence of DC earth electrode on the non-linear polarization [J]. Electric Power Engineering Technology, 2019, 38(03):134-139.

[3] 500 kV双回输电线路转角塔附近屋顶畸变电场分析

黄明祥， 卞宏志， 林奕夫，等. 500 kV双回输电线路转角塔附近屋顶畸变电场分析[J]. 电力工程技术, 2019,38(03):140-145,174.

HUANG Mingxiang, BIAN Hongzhi , LIN Yifu , et al. Analysis of the distorted electric field on rooftop near angle tower of 500 kV double circuit transmission lines [J]. Electric Power Engineering Technology, 2019, 38(03):140-145,174.

**技术探讨**

[1] 热老化条件下LDPE/TiO2纳米复合材料介电特性研究

李玉栋， 张建华， 徐海霞，等. 热老化条件下LDPE/TiO2纳米复合材料介电特性研究[J]. 电力工程技术, 2019,38(03):146-150.

LI Yudong, ZHANG Jianhua, XU Haixia,et al. Dielectric properties of LDPE/TiO2 nanocomposites under heat aging [J]. Electric Power Engineering Technology, 2019, 38(03): 146-150.

[2] 基于模糊聚类曲线相似度的负荷用户识别方法

吴郅君， 殷新博， 陈中，等. 基于模糊聚类曲线相似度的负荷用户识别方法[J]. 电力工程技术, 2019,38(03):151-156.

WU Zhijun, YIN Xinbo, CHEN Zhong, et al. Identification method of load customers based on similarity of fuzzy clustering curves [J]. Electric Power Engineering Technology, 2019, 38(03): 151-156.

[3] 一种抽能型高抗的抽能绕组匝间短路保护方案研究

莫品豪， 郑超， 张晓宇，等. 一种抽能型高抗的抽能绕组匝间短路保护方案研究[J]. 电力工程技术, 2019,38(03):157-162.

MO Pinhao, ZHENG Chao , ZHANG Xiaoyu , et al. The research of a new scheme of inter-turn winding short circuit protection forenergy extraction shunt reactor [J]. Electric Power Engineering Technology, 2019, 38(03): 157-162.

[4] 同塔并架高压直流输电线路故障及保护特性研究

刘云. 同塔并架高压直流输电线路故障及保护特性研究[J]. 电力工程技术, 2019,38(03):163-169.

LIU Yun. Characteristics of fault and protection of the multi HVDC transmission lines on the same tower [J]. Electric Power Engineering Technology, 2019, 38(03): 163-169.

[5] 基于黎曼积分的连续最优潮流模型

袁亚云， 周威林， 杨阳，等. 基于黎曼积分的连续最优潮流模型[J]. 电力工程技术, 2019, 38(03): 170-174.

YUAN Yayun, ZHOU Weilin, YANG Yang, et al. Continuation optimal power flow model based on Riemann integral [J]. Electric Power Engineering Technology, 2019, 38(03): 170-174.

**第2期**

**专论与综述**

[1] 能源互联网多源多层次协调优化方法研究

代贤忠， 韩新阳， 董益华，等. 能源互联网多源多层次协调优化方法研究[J]. 电力工程技术, 2019,38(02):1-9.

DAI Xianzhong, HAN Xinyang, DONG Yihua, et al. Multi-source and multi-level coordination optimization method of energy internet [J]. Electric Power Engineering Technology, 2019, 38(02):1-9.

[2] 多通信方式联合组网下的海岛微电网控制方法

孙大松， 郁正纲， 伏祥运，等. 多通信方式联合组网下的海岛微电网控制方法[J]. 电力工程技术, 2019,38(02):10-17.

SUN Dasong, YU Zhenggang, FU Xiangyun, et al. Control method based on multi-communications in island microgrid [J]. Electric Power Engineering Technology, 2019, 38(02):10-17.

[3] 储能参与电力系统快速调频的需求评估方法

樊海锋， 俞智鹏， 刘文龙，等. 储能参与电力系统快速调频的需求评估方法[J]. 电力工程技术, 2019,38(02):18-24.

FAN Haifeng, YU Zhipeng, LIU Wenlong, et al. A demand assessment approach of energy storage for participating in fast frequency regulation of power system [J]. Electric Power Engineering Technology, 2019, 38(02):18-24.

**风电机组运行检测技术专题**

[1] 基于实时电流幅值的风电整流器故障诊断方法

黄凯， 邱颖宁， 秦伟，等. 基于实时电流幅值的风电整流器故障诊断方法[J]. 电力工程技术, 2019,38(02):25-31.

HUANG Kai, QIU Yingning, QIN Wei, et al. Fault diagnosis algorithm for wind power rectifier based on real-time current amplitude [J]. Electric Power Engineering Technology, 2019, 38(02):25-31.

[2] 基于预测虚拟转矩控制的DFIG并网逆变方法

曹晓冬， 杨世海， 支亚薇，等. 基于预测虚拟转矩控制的DFIG并网逆变方法[J]. 电力工程技术, 2019,38(02):32-37，98.

CAO Xiaodong, YANG Shihai, ZHI Yawei, et al. The predictive virtual torque control method for distributed DFIG grid connected inverter system [J]. Electric Power Engineering Technology, 2019, 38(02):32-37，98.

[3] SVC附加闭锁控制提高双馈风电场高电压穿越研究

吴倩， 薄鑫， 张汀荃，等. SVC附加闭锁控制提高双馈风电场高电压穿越研究[J]. 电力工程技术, 2019,38(02):38-43.

WU Qian, BO Xin, ZHANG Tingquan, WU Yangyong, et al. Additional locking control of SVC improving high voltage ridethrough of DFIG based wind farm [J]. Electric Power Engineering Technology, 2019, 38(02):38-43.

**电网运行与控制**

[1] 基于最小二乘矩阵束的励磁涌流识别方案

陈星宇. 基于最小二乘矩阵束的励磁涌流识别方案[J]. 电力工程技术, 2019,38(02):44-49.

CHEN Xingyu. Identification method for inrush current based on least-square matrix pencil algorithm [J]. Electric Power Engineering Technology, 2019, 38(02):44-49.

[2] 基于RTDS的快速投切电容器自动装置投切策略研究

蔡海青， 郭琦， 刘仕萍，等. 基于RTDS的快速投切电容器自动装置投切策略研究[J]. 电力工程技术, 2019,38(02):50-56.

CAI Haiqing, GUO Qi, LIU Shiping, et al. Switching strategy of fast-switching capacitor automatic device based on closed-loop real-time simulation [J]. Electric Power Engineering Technology, 2019, 38(02):50-56.

[3] 一种基于图形处理器加速的批量LU分解算法

李梦月， 王颖， 马刚，等. 一种基于图形处理器加速的批量LU分解算法[J]. 电力工程技术, 2019,38(02):57-63.

LI Mengyue , WANG Ying, MA Gang, et al. A GPU-accelerated algorithm of batch-LU decomposition [J]. Electric Power Engineering Technology, 2019, 38(02):57-63.

[4] 基于广域相量测量系统的电网一次调频能力预测

张琦兵， 徐春雷， 刘栋，等. 基于广域相量测量系统的电网一次调频能力预测[J]. 电力工程技术, 2019,38(02):64-68.

ZHANG Qibing, XU Chunlei, LIU Dong, WANG Bo, et al. Ability of primary frequency regulation estimate based on wide area measurement system [J]. Electric Power Engineering Technology, 2019, 38(02):64-68.

[5] 基于参数辨识的波浪发电场等效建模研究

刘元尊， 管维亚， 赵静波，等. 基于参数辨识的波浪发电场等效建模研究[J]. 电力工程技术, 2019,38(02):69-74.

LIU Yuanzun, GUAN Weiya, ZHAO Jingbo, et al. Parameter identification based on equivalent modeling of AWS wave farm [J]. Electric Power Engineering Technology, 2019, 38(02):69-74.

[6] 计及N-k网络安全约束的二阶段鲁棒机组组合

翟鹤峰， 赵利刚， 戴仲覆，等. 计及N-k网络安全约束的二阶段鲁棒机组组合[J]. 电力工程技术, 2019,38(02):75-85.

ZHAI Hefeng, ZHAO Ligang, DAI Zhongfu, et al. Two-stage robust unit commitment considering N-k network security constraints [J]. Electric Power Engineering Technology, 2019, 38(02):75-85.

[7] 直流输电工程模块化最后断路器保护策略分析

王杨正， 陈乐， 俞翔，等. 直流输电工程模块化最后断路器保护策略分析[J]. 电力工程技术, 2019,38(02):86-92.

WANG Yangzheng, CHEN Le, YU Xiang, et al. Analysis of modular last line protection strategy of HVDC project [J]. Electric Power Engineering Technology, 2019, 38(02):86-92.

[8] 基于信息再修正的负荷协调预测方法研究

陈轶玮， 高强， 王林梅，等. 基于信息再修正的负荷协调预测方法研究[J]. 电力工程技术, 2019,38(02):93-98.

CHEN Yiwei, GAO Qiang, WANG Linmei, et al. Load coordination forecasting method based on information re-modification[J]. Electric Power Engineering Technology, 2019, 38(02):93-98.

[9] 基于增广状态估计的混合不良数据诊断与参数辨识

陆东生， 马龙鹏. 基于增广状态估计的混合不良数据诊断与参数辨识[J]. 电力工程技术, 2019,38(02):99-104.

LU Dongsheng, MA Longpeng. Hybrid bad-data detection and parameter identification based on augmented state estimation [J]. Electric Power Engineering Technology, 2019, 38(02):99-104.

**智能配网与微网**

[1] 马赫-曾德干涉检测地下电缆周界振动的分析与实验

覃欣， 朱宁西， 刘刚，等. 马赫-曾德干涉检测地下电缆周界振动的分析与实验[J]. 电力工程技术, 2019,38(02):105-110.

QIN Xin, ZHU Ningxi, LIU Gang, et al. Analysis and experiment of surface vibration characteristics ofunderground cables by Mach-Zehnder interference detection [J]. Electric Power Engineering Technology, 2019, 38(02):105-110.

[2] 应用于含有线-缆混合线路配电网的行波故障测距新方法

侯丽钢， 汤向华， 江辉，等. 应用于含有线-缆混合线路配电网的行波故障测距新方法[J]. 电力工程技术, 2019,38(02):111-116.

HOU Ligang, TANG Xianghua, JIANG Hui, et al. A novel traveling wave fault location method applied to distribution networks containing hybrid line composed of overhead line and cable [J]. Electric Power Engineering Technology, 2019, 38(02):111-116.

[3] 智能变电站过程层网络监测与故障定位系统设计与实现

李超， 罗凌璐， 王德辉 ，等. 智能变电站过程层网络监测与故障定位系统设计与实现[J]. 电力工程技术, 2019,38(02):117-122,141.

LI Chao, LUO Linglu, WANG Dehui, et al. Design and implementation of network monitoring and fault location system for process layer network in smart substation [J]. Electric Power Engineering Technology, 2019, 38(02):117-122,141.

**高电压技术**

[1] 金属颗粒对绝缘油流注发展特性的影响研究

李伯男， 李熙， 黄磊峰，等. 金属颗粒对绝缘油流注发展特性的影响研究[J]. 电力工程技术, 2019,38(02):123-128.

LI Bonan, LI Xi, HUANG Leifeng, et al. Influence of metal particles on the development characteristics of insulating oil [J]. Electric Power Engineering Technology, 2019, 38(02):123-128.

[2] 基于自适应滤波的信号分离与窄带干扰抑制

陈昊， 廖英祺， 张连芹，等. 基于自适应滤波的信号分离与窄带干扰抑制[J]. 电力工程技术, 2019,38(02):129-134.

CHEN Hao, LIAO Yingqi, ZHANG Lianqin, et al. A method of signal separation and narrowband interferencesuppression based on adaptive filter [J]. Electric Power Engineering Technology, 2019, 38(02):129-134.

[3] 交流架空线对平行埋地钢制管道感性耦合的计算研究

李后英， 余骏阳， 梁玄鸿. 交流架空线对平行埋地钢制管道感性耦合的计算研究[J]. 电力工程技术, 2019,38(02):135-141.

LI Houying, YU Junyang, LIANG Xuanhong. Calculation method for coupling voltage of parallel buried steel pipelines during normal operation of AC overhead transmission lines [J]. Electric Power Engineering Technology, 2019, 38(02):135-141.

[4] 基于红外的GIS内部导体温度检测技术研究

李玉杰， 李洪涛， 宋思齐，等. 基于红外的GIS内部导体温度检测技术研究[J]. 电力工程技术, 2019,38(02):142-146.

LI Yujie, LI Hongtao, SONG Siqi, et al. Temperature detection of internal conductor in GIS based on infrared thermal imaging [J]. Electric Power Engineering Technology, 2019, 38(02):142-146.

[5] 高压电缆接地电流的计算及其影响因素分析

潘伟， 王浩， 童斌，等. 高压电缆接地电流的计算及其影响因素分析[J]. 电力工程技术, 2019,38(02):147-151.

PAN Wei, WANG Hao, TONG Bin, et al. Calculation and analysis of grounding current and its influence factors of high-voltage power cables [J]. Electric Power Engineering Technology, 2019, 38(02):147-151.

**技术探讨**

[1] 基于双重隔离的电力通用安全接入区设计与实现

曹翔， 胡绍谦， 张阳，等. 基于双重隔离的电力通用安全接入区设计与实现[J]. 电力工程技术, 2019,38(02):152-158.

CAO Xiang, HU Shaoqian, ZHANG Yang, et al. Design and implementation of power universal security access zone based on dual isolation [J]. Electric Power Engineering Technology, 2019, 38(02):152-158.

[2] 1 000 MW二次再热超超临界机组工程特点及运行分析

张苏闽. 1 000 MW二次再热超超临界机组工程特点及运行分析[J]. 电力工程技术, 2019,38(02):159-162，168.

ZHANG Sumin. DEngineering characteristics and service economic analysis of 1 000 MW ultra-supercritical unit with double-reheat cycle [J]. Electric Power Engineering Technology, 2019, 38(02): 159-162，168.

[3] 基于可信度加权的线路故障测距方法

赵青春， 徐晓春， 陆金凤，等. 基于可信度加权的线路故障测距方法[J]. 电力工程技术, 2019,38(02):153-168.

ZHAO Qingchun, XU Xiaochun, LU Jinfeng, et al. Fault location method for transmission line based on the weighting of reliability [J]. Electric Power Engineering Technology, 2019, 38(02):153-168.

**第1期**

**专论与综述**

[1] 采用六相输电技术优化双回高压输电线路电磁环境的研究

葛小宁， 庞福滨， 嵇建飞，等. 采用六相输电技术优化双回高压输电线路电磁环境的研究[J]. 电力工程技术, 2019,38(01):1-5.

GE Xiaoning, PANG Fubin, JI Jianfei ,et al. Improving the electromagnetic environment of a double-circuit high-voltage transmission line using the six-phased technology [J]. Electric Power Engineering Technology, 2019, 38(01):1-5.

[2] 基于换相面积的CSCC-HVDC输电特性研究

陈中， 朱政光， 周涛. 基于换相面积的CSCC-HVDC输电特性研究[J]. 电力工程技术, 2019,38(01):6-13.

CHEN Zhong, ZHU Zhengguang, ZHOU Tao. Transmission characteristics of CSCC-HVDC based on commutation area [J]. Electric Power Engineering Technology, 2019, 38(01):6-13.

[3] 基于连续潮流的配电网供电能力评估

黄兵， 赵晋泉. 基于连续潮流的配电网供电能力评估[J]. 电力工程技术, 2019,38(01):14-18.

HUANG Bing, ZHAO Jinquan. Power supply capability evaluationof distribution network based on continuation power flow [J]. Electric Power Engineering Technology, 2019, 38(01):14-18.

**电力电缆温度监测专题**

[1] 防火带材对高压电缆载流量和温度监测影响研究

曹京荥 ， 徐超， 陈杰，等. 防火带材对高压电缆载流量和温度监测影响研究[J]. 电力工程技术, 2019,38(01):19-23.

CAO Jingying， XU Chao， CHEN Jie，et al. Influence of fireproof belt on ampacity and temperature measuring of high voltage cable [J]. Electric Power Engineering Technology, 2019, 38(01):19-23.

[2] 计及轴向传热的中低压单芯电缆导体温升状态空间模型

朱立位， 潘宏承， 应展烽，等. 计及轴向传热的中低压单芯电缆导体温升状态空间模型[J]. 电力工程技术, 2019,38(01):24-30.

ZHU Liwei，PAN Hongcheng，YING Zhanfeng, et al. The state space model of conductor temperature estimation considering axial heat conduction for middle and low voltage single core power cable [J]. Electric Power Engineering Technology, 2019, 38(01):24-30.

[3] 基于PSO-LSSVM的高压电力电缆接头温度预测

何邦乐， 黄勇， 叶頲，等. 基于PSO-LSSVM的高压电力电缆接头温度预测[J]. 电力工程技术, 2019,38(01):31-35.

HE Bangle, HUANG Yong, YE Ting , et al. Temperature prediction of power cable joint based on PSO-LSSVMpredict model [J]. Electric Power Engineering Technology, 2019, 38(01):31-35.

**电网运行与控制**

[1] 基于晴空指数与波动特性的光伏电站可靠性分析

宗炫君， 袁越 ， 蒋科，等. 基于晴空指数与波动特性的光伏电站可靠性分析[J]. 电力工程技术, 2019,38(01):36-41.

ZONG Xuanjun， YUAN Yue， JIANG Ke， et al. Reliability analysis for the PV power plant based on the clearness index and variability characteristic [J]. Electric Power Engineering Technology, 2019, 38(01):36-41.

[2] 电力市场下风电电力系统旋转备用风险-成本模型

刘怡君， 夏晨杰， 关惠方，等. 电力市场下风电电力系统旋转备用风险-成本模型[J]. 电力工程技术, 2019,38(01):42-48.

LIU Yijun, XIA Chenjie, GUAN Huifang, et al. Risk-costmodel of spinning reserve of power system incorporated wind power in electricity market [J]. Electric Power Engineering Technology, 2019, 38(01):42-48.

[3] 能源互联网及优化运行调度简述

杨济如，高赐威，苏卫华.能源互联网及优化运行调度简述[J].电力工程技术, 2019, 38(01):49-55.

YANG Jiru, GAO Ciwei, SU Weihua. A Brief Review to the Energy Internet and its Optimal Scheduling [J]. Electric Power Engineering Technology, 2019, 38(01):49-55.

[4] 避免高补偿度线路直流偏置风险的断路器合闸控制方法

李海涛， 须雷， 曹树江，等. 避免高补偿度线路直流偏置风险的断路器合闸控制方法[J].电力工程技术, 2019, 38(01):56-61.

LI Haitao, XU Lei, CAO Shujiang,et al. Control method of circuit breaker to avoid DC offset risk in closing transmission lines with high level of compensation [J]. Electric Power Engineering Technology, 2019, 38(01):56-61.

[5] 考虑静态电压稳定裕度的含UPFC最优潮流计算方法研究

刘盛松， 周挺， 张宁宇，等. 考虑静态电压稳定裕度的含UPFC最优潮流计算方法研究[J].电力工程技术, 2019, 38(01):62-66.

LIU Shengsong， ZHOU Ting， ZHANG Ningyu， et al. Optimal power flows with UPFC and minimum voltage stability constraint [J]. Electric Power Engineering Technology, 2019, 38(01):62-66.

**智能配网与微网**

[1] 基于测量导纳变化的微电网群联络线保护方案

张凡， 牟龙华，邱进. 基于测量导纳变化的微电网群联络线保护方案[J]. 电力工程技术, 2019,38(01):67-74.

ZHANG Fan， MU Longhua， QIU Jin. Protection scheme for tie lines of multi-microgrid based on measured bus admittance [J]. Electric Power Engineering Technology, 2019, 38(01):67-74.

[2] 电动汽车充电负荷时空分布预测

李丹奇，郑建勇，史明明，等. 电动汽车充电负荷时空分布预测[J]. 电力工程技术, 2019,38(01):75-83.

LI Danqi, ZHENG Jianyong , SHI Mingming ,et al. Prediction of time and space distribution of electric vehicle charging load [J]. Electric Power Engineering Technology, 2019, 38(01):75-83.

[3] 谐波有功功率责任指标定义与计算方法研究

郭敏， 陈卫东， 金庆忍. 谐波有功功率责任指标定义与计算方法研究[J]. 电力工程技术, 2019,38(01):84-89,95.

GUO Min, CHEN Weidong, JIN Qingren. Index definition and calculation method of harmonic active power responsibility [J]. Electric Power Engineering Technology, 2019, 38(01):84-89,95.

[4] 中低压保护控制异构双重化方案研究

余群兵， 汤同峰， 金震，等. 中低压保护控制异构双重化方案研究[J]. 电力工程技术, 2019,38(01):90-95.

YU Qunbing, TANG Tongfeng, JIN Zhen,et al. Isomeric double configuration scheme of medium and low voltage protection and control function [J]. Electric Power Engineering Technology, 2019, 38(01):90-95.

**高电压技术**

[1] 金属钝化剂BTA对变压器硫腐蚀的抑制效果及绝缘油性能的影响研究

陆云才， 高思航， 蔚超，等. 金属钝化剂BTA对变压器硫腐蚀的抑制效果及绝缘油性能的影响研究[J]. 电力工程技术, 2019,38(01):96-101.

LU Yuncai, GAO Sihang, WEI Chao ,et al. Effect of triazole-based passivators on copper-sulfide deposition and oil properties in oil-immersed transformers [J]. Electric Power Engineering Technology, 2019, 38(01):96-101.

[2] 低值瓷绝缘子红外检测温差阈值研究

陈楠， 陈高洋， 李鸿泽，等. 低值瓷绝缘子红外检测温差阈值研究[J]. 电力工程技术, 2019,38(01):102-106.

CHEN Nan, CHEN Gaoyang, LI Hongze,et al. Temperature difference threshold of infrared detection of low value porcelain insulators [J]. Electric Power Engineering Technology, 2019, 38(01):102-106.

[3] 1 100 kV/10 kA特高压交流长期带电试验回路的设计

李华良， 王博， 孙敏，等. 1 100 kV/10 kA特高压交流长期带电试验回路的设计[J]. 电力工程技术, 2019,38(01):107-113.

LI Hualiang, WANG Bo, SUN Min, et al. Design of 1 100 kV/10 kA UHV AC long term live test loop [J]. Electric Power Engineering Technology, 2019, 38(01):107-113.

[4] 环境因素对避雷器泄漏电流影响研究

衡思坤，王琛，张自伟，等. 环境因素对避雷器泄漏电流影响研究[J]. 电力工程技术, 2019,38(01):114-118.

HENG Sikun, WANG Chen, ZHANG Ziwei, et al. Influence of environmental factors on the leakage current of arrester [J]. Electric Power Engineering Technology, 2019, 38(01):114-118.

**技术探讨**

[1] 基于磁滞特性的自取电电源取能线圈匝数研究

张璐路， 李斌， 权超，等. 基于磁滞特性的自取电电源取能线圈匝数研究[J]. 电力工程技术, 2019,38(01):119-125.

ZHANG Lulu, LI Bin , QUAN Chao , et al. The number of coil turns for self-powered supply on transmission lines based on hysteresis characteristics [J]. Electric Power Engineering Technology, 2019, 38(01):119-125.

[2] 基于改进单纯形法的杆塔优化规划

赵新宇，贾振宏，张瑞永，等. 基于改进单纯形法的杆塔优化规划[J]. 电力工程技术, 2019,38(01):126-131.

ZHAO Xinyu , JIA Zhenhong , ZHANG Ruiyong, et al. Optimization oftransmission pole and tower planning based on Nelder-Mead simplex method [J]. Electric Power Engineering Technology, 2019, 38(01):126-131.

[3] 苏南UPFC工程保护配合策略研究

张宝顺， 董云龙， 潘磊，等. 苏南UPFC工程保护配合策略研究[J]. 电力工程技术, 2019,38(01):132-139.

ZHANG Baoshun, DONG Yunlong, PAN Lei, et al. Protection coordination strategy of southern Suzhou UPFC project [J]. Electric Power Engineering Technology, 2019, 38(01):132-139.

[4] 单相三电平APF单周控制矢量模式研究

谭风雷， 陈梦涛， 高世宇，等. 单相三电平APF单周控制矢量模式研究[J]. 电力工程技术, 2019,38(01):140-145.

TAN Fenglei, CHEN Mengtao, GAO Shiyu, et al. Single-phase three-level APF vector mode for one-cycle control [J]. Electric Power Engineering Technology, 2019, 38(01):140-145.

[4] 晶闸管旁路开关在UPFC中的应用

周启文，丁峰峰，潘磊，等. 晶闸管旁路开关在UPFC中的应用[J]. 电力工程技术, 2019,38(01):146-151.

ZHOU Qiwen, DING Fengfeng, PAN Lei, et al. The application of thyristor bypass witch in UPFC [J]. Electric Power Engineering Technology, 2019, 38(01):146-151.

[5] 一种母线综合后备保护装置

陈晓彬， 孙旭， 戴光武，等. 一种母线综合后备保护装置[J]. 电力工程技术, 2019,38(01):152-156，162.

CHEN Xiaobin, SUN Xu, DAI Guangwu, et al. A comprehensive backup protection device for busbar [J]. Electric Power Engineering Technology, 2019, 38(01): 152-156，162.

[6] 1 000 MW汽轮发电机转子绕组匝间短路故障诊断与分析

杨玉磊. 1 000 MW汽轮发电机转子绕组匝间短路故障诊断与分析[J]. 电力工程技术, 2019,38(01):157-162.

YANG Yulei. Diagnosis and analysis of 1 000 MW turbine generator rotor winding inter turn short-circuit fault [J]. Electric Power Engineering Technology, 2019, 38(01): 157-162.