

全国中文核心期刊
中国科技核心期刊

中国科学引文数据库(CSCD)核心期刊
荷兰《文摘与引文数据库》收录期刊

ISSN 1674-3415
CN 41-1401/TM
CODEN DXBYAZ

电力系统保护与控制

Power System Protection and Control

 许继集团有限公司
XJ GROUP CORPORATION



400-01-95598

全面升级 全新体验

商务咨询·采购意向
技术交流·方案沟通

安装调试·运行维护
投诉建议·表彰表扬

地址:河南省许昌市许继大道1298号

邮编:461000

网址:www.xjgc.com



许昌开普电气研究院有限公司 主办

2020 14

第48卷

第14期

总第560期

电力系统保护与控制

DIANLI XITONG BAOHU YU KONGZHI

第 48 卷第 14 期(总第 560 期) 2020 年 7 月 16 日出版

目次

理论分析

- 基于启发式规则与 AHP-CRITIC 算法的配电网故障恢复策略 汤旻安, 张凯越, 许希元(1)
- 一种含分布式电源的配电网三相潮流混合计算方法 邓红雷, 张莉彬, 唐崇旺, 等(10)
- 基于组合赋权法的风电场无功电压控制能力综合评估 沈阳武, 祖文静, 梁利清, 等(18)
- 考虑风电不确定性的 VSC-MTDC 互联系统两阶段交直流最优潮流 杨喆麟, 汪可友, 李国杰(25)
- 计及不确定性的含分布式发电并网的配电网故障区段定位方法 贾伯岩, 马天祥, 张智远, 等(35)
- 一种电网等值分解及短路计算新方法 张武洋, 李籽良, 李永照, 等(43)

应用研究

- 交直流混合微电网互联变流器改进控制策略 张国荣, 丁晓通, 彭 勃, 等(50)
- 计及微电网黑启动的虚拟同步发电机调频策略 付 华, 刘公权, 徐耀松, 等(59)
- 泛在电力物联网在电力设备状态监测中的应用 刘喜梅, 马俊杰(69)
- 基于分布式光纤测温技术的超导电缆局部失超检测和保护方法 黄金朋, 张 哲, 汪 伟, 等(76)
- 基于 CPU-FPGA 异构平台的虚拟同步并网逆变器实时仿真算法设计 吴 盼, 汪可友, 徐 晋, 等(85)
- 基于 AVMD-自适应小波包法的电缆局部放电去噪研究 吴 童, 孙 抗, 师文文(95)
- 一种改进的纵联零序方向保护方案 薛明军, 杨黎明, 张 祥, 等(104)
- 特高压直流输电线路改进双端行波故障定位方法研究 孙 广, 王 阳, 薛 枫, 等(113)
- 基于随机机会约束规划的面向能源互联的主动配电网选址定容方法 赵丽萍, 张书伟, 张雪岩, 等(121)
- 具备高灵敏性与速动性的柔性直流输电系统纵联保护方案 林湘宁, 胡仙清, 童 宁, 等(130)
- 考虑需求响应与光热电站参与的多源系统优化经济调度 负韞韵, 董海鹰, 马志程, 等(140)
- 基于群灰狼优化算法的双馈感应电机最优控制 赵瑞锋, 郭文鑫, 王 彬, 等(150)

设计开发

- 基于馈线树动态拓扑的高容错故障定段方法 熊郁芬, 秦飞翔, 黄智鹏, 等(159)
- 基于 APIT-MEMD 的电力系统低频振荡模式辨识新方法 张艳军, 殷祥翔, 葛延峰, 等(165)

工程应用

- 一种面向电力调控云的高效运维方法 陈振宇, 刘 东, 高兴宇, 等(175)
- 就地化保护更换式检修技术研究 傅振宇, 杨 飞, 钱 海, 等(182)

Power System Protection and Control

(Semimonthly)

Vol. 48 No. 14 (Ser. 560)

July 16, 2020

CONTENTS

Theoretical Analysis

- Service restoration strategy of a distribution network based on heuristic rules and the AHP-CRITIC algorithm TANG Min'an, ZHANG Kaiyue, XU Xiyuan(1)
- A hybrid calculation method of three-phase power flow with distributed generation resource on a distribution network DENG Honglei, ZHANG Libin, TANG Chongwang, et al(10)
- Comprehensive evaluation of the reactive power and voltage control capability of a wind farm based on a combined weighting method SHEN Yangwu, ZU Wenjing, LIANG Liqing, et al(18)
- Two-stage AC/DC optimal power flow with VSC-MTDC considering uncertainty of wind power YANG Zhelin, WANG Keyou, LI Guojie(25)
- Fault section location method for distribution networks with distributed generation and grid connection considering uncertainty JIA Boyan, MA Tianxiang, ZHANG Zhiyuan, et al(35)
- A new method of power grid equivalent decomposition and short-circuit calculation ZHANG Wuyang, LI Ziliang, LI Yongzhao, et al(43)

Application Research

- Improved control strategy for an AC/DC hybrid microgrid interlinking converter ZHANG Guorong, DING Xiaotong, PENG Bo, et al(50)
- Frequency regulation strategy of a virtual synchronous generator-based microgrid considering the black start process FU Hua, LIU Gongquan, XU Yaosong, et al(59)
- Application of the ubiquitous power internet of things in state monitoring of power equipment LIU Ximei, MA Junjie(69)
- A local quench detection and protection method for a superconducting cable based on distributed optical fiber temperature measurement technology HUANG Jinpeng, ZHANG Zhe, WANG Wei, et al(76)
- Real-time simulation algorithm design of a virtual synchronous grid-connected inverter system based on a CPU-FPGA heterogeneous platform WU Pan, WANG Keyou, XU Jin, et al(85)
- Research on cable partial discharge denoising based on an AVMD-adaptive wavelet packet method WU Tong, SUN Kang, SHI Wenwen(95)
- An improved pilot zero-sequence power directional relay scheme XUE Mingjun, YANG Liming, ZHANG Xiang, et al(104)
- Research on an improved double-terminal traveling wave fault location method for UHVDC project SUN Guang, WANG Yang, XUE Feng, et al(113)
- Locating and sizing method for energy interconnection oriented active distribution networks based on stochastic chance constrained programming ZHAO Liping, ZHANG Shuwei, ZHANG Xueyan, et al(121)
- A pilot protection scheme for an VSC-MTDC system with high sensitivity and rapidity LIN Xiangning, HU Xianqing, TONG Ning, et al(130)
- Optimization economic dispatch of a multi-source system considering the participation of demand response and concentrating solar power plant YUN Yyun, DONG Haiying, MA Zhicheng, et al(140)
- Gathered grey wolf optimizer based optimal control of doubly-fed induction generator ZHAO Ruifeng, GUO Wenxin, WANG Bin, et al(150)

Design and Development

- High fault-tolerant fault segmentation method based on feeder tree dynamic topology XIONG Yufen, QIN Feixiang, HUANG Zhipeng, et al(159)
- Low frequency oscillation mode estimation in power systems using adaptive-projection intrinsically transformed multivariate empirical mode decomposition ZHANG Yanjun, YIN Xiangxiang, GE Yanfeng, et al(165)

Engineering Application

- An efficient operation and maintenance method for power dispatching and control cloud CHEN Zhenyu, LIU Dong, GAO Xingyu, et al(175)
- Research on replacement maintenance technology of on-site protection FU Zhenyu, YANG Fei, QIAN Hai, et al(182)