

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



The Expert of Solutions and Services for Smart Grid
智能电网解决方案与服务专家

南京国电南自自动化有限公司
NANJING SAC AUTOMATION CO., LTD.

地址: 南京市江宁区水阁路39号 邮编: 211153
电话: 025-6983 2000 传真: 025-6983 3000



许昌开普电气研究院有限公司 主办

2020 17

第48卷 第17期 总第563期

电力系统保护与控制

DIANLI XITONG BAOHU YU KONGZHI

第 48 卷第 17 期(总第 563 期) 2020 年 9 月 1 日出版

目 次

理论分析

- 基于全相位谱和深度学习的串联故障电弧识别方法 陈 烜, 冷继伟, 李海峰(1)
- 基于 Tube 不变集的直流微电网鲁棒模型预测控制 王晓兰, 侯天玉, 宫玮丽, 等(9)
- 超高压电网反时限零序过流保护简化整定方法 孙正伟, 刘家庆, 鲍 斌, 等(18)
- 基于多指标面板数据特征提取的同调机组分群方法 张 智, 陈艳波, 宋新甫, 等(27)
- 提升交流系统暂态稳定性的多端直流最优紧急功率控制 章 德, 田国梁, 谭玉东, 等(37)
- 基于 MVEE 和 LSPTSVM 的电力系统暂态稳定评估 王 亮, 韩 冬, 王长江, 等(45)

应用研究

- 考虑增量用电负荷分配的煤改电/煤改气联合分阶段规划 杨 楠, 隆舰艇, 黄悦华, 等(55)
- 基于 EWT 及多尺度形态谱的高压并联电抗器故障诊断研究 赵若好, 马宏忠, 魏 旭, 等(68)
- 基于消息总线的综合能源系统时间序列潮流的协同仿真方法 孙宏宇, 张沛超, 陈永华(76)
- 主动配电网储能动态配置规划方法 尚龙龙, 魏碧桢, 王 伟, 等(84)
- 基于非均衡蛛网模型的区域能源互联网协调优化运行策略 刘 奇, 周海全, 何 浩, 等(93)
- 考虑惯性与阻尼特性的 MMC-HVDC 附加功率控制策略 孙 冰, 包 丹, 张 磊(108)
- 直流微电网孤岛运行控制策略研究 董继军, 陈 浩, 周雪松, 等(115)
- 基于粗糙集贪心算法的逆变器开路故障诊断 韩素敏, 郑书晴, 何永盛(122)
- 基于经济性的互联网数据中心光-储协同优化配置 桑丙玉, 王德顺, 杨 波, 等(131)
- 基于证据推理的优质电力投资决策方法 栾 乐, 周 凯, 肖天为, 等(139)
- 多源信息辅助分区的主动配电网故障区段定位 程云祥, 李 阳, 卢 芳, 等(147)

设计开发

- 基于 SOA 与虚拟私有云的断路器状态可视化监测系统 练椿杰, 韦 化, 覃圣超, 等(155)
- 基于无线射频通信的变电站间隔相量校核装置的研究 汪冬辉, 罗建平, 方 芳, 等(162)

工程应用

- 逆变侧换流变压器网侧接地故障对差动保护影响分析 吴建云, 国兴超, 罗美玲, 等(170)
- 基于历史数据语义相似度的智能变电站虚端子自动连接 范卫东, 冯晓伟, 董金星, 等(179)

Power System Protection and Control

(Semimonthly)

Vol. 48 No. 17 (Ser. 563)

September 1, 2020

CONTENTS

Theoretical Analysis

- Series fault arc recognition method based on an all-phase spectrum and deep learning CHEN Xuan, LENG Jiwei, LI Haifeng(1)
- Robust model predictive control of a DC microgrid based on a Tube invariant set
..... WANG Xiaolan, HOU Tianyu, GONG Weili, et al(9)
- A novel simplified relay coordination method for inverse-time zero-sequence overcurrent relays applied in an extra-high voltage power grid SUN Zhengwei, LIU Jiaqing, BAO Bin, et al(18)
- Coherent clustering method based on feature extraction for multi-index panel data
..... ZHANG Zhi, CHEN Yanbo, SONG Xinfu, et al(27)
- Optimal control of MTDC for improving rotor angle stability of AC systems ZHANG De, TIAN Guoliang, TAN Yudong, et al(37)
- Power system transient stability assessment based on MVEE and LSPTSVM WANG Liang, HAN Dong, WANG Changjiang, et al(45)

Application Research

- Joint staged planning of coal-to-electricity/coal-to-gas considering incremental electricity load distribution
..... YANG Nan, LONG Jianting, HUANG Yuehua, et al(55)
- Research on fault diagnosis of a high voltage shunt reactor based on EWT and multiscale spectral spectrum
..... ZHAO Ruoyu, MA Hongzhong, WEI Xu, et al(68)
- A co-simulation method for time series energy flow of integrated energy system based on message bus
..... SUN Hongyu, ZHANG Peichao, CHEN Yonghua(76)
- A planning method of dynamic energy storage configuration in an active distribution network
..... SHANG Longlong, WEI Bihui, WANG Wei, et al(84)
- Coordinated optimal operation strategy of a regional energy internet based on the non-equilibrium cobweb model
..... LIU Qi, ZHOU Haiquan, HE Hao, et al(93)
- Supplementary power control scheme for an MMC-HVDC station considering inertia and damping
..... SUN Bing, BAO Dan, ZHANG Lei(108)
- Research on control strategy of a DC microgrid in isolated operation DONG Jijun, CHEN Hao, ZHOU Xuesong, et al(115)
- Open circuit fault diagnosis for inverters based on a greedy algorithm of a rough set
..... HAN Sumin, ZHENG Shuqing, HE Yongsheng(122)
- Collaborative optimization configuration of photovoltaic-energy storage based on economy in an internet data center
..... SANG Bingyu, WANG Deshun, YANG Bo, et al(131)
- Premium power investment decision-making method based on evidence reasoning LUAN Le, ZHOU Kai, XIAO Tianwei, et al(139)
- Fault-section location for active distribution networks assisted by multi-source information
..... CHENG Yunxiang, LI Yang, LU Fang, et al(147)

Design and Development

- A circuit breaker status visual monitoring system based on SOA and virtual private cloud
..... LIAN Chunjie, WEI Hua, QIN Shengchao, et al(155)
- Research on a substation interval phasor check device based on RF communication
..... WANG Donghui, LUO Jianping, FANG Fang, et al(162)

Engineering Application

- Analysis of influence of grounding fault of the network side of an inverter-side converter transformer on differential protection
..... WU Jianyun, GUO Xingchao, LUO Meiling, et al(170)
- Automatic matching method of a virtual terminal in intelligent substation based on semantic similarity of historical data
..... FAN Weidong, FENG Xiaowei, DONG Jinxing, et al(179)