

电力系统保护与控制

Power System Protection and Control

第 38 卷第 12 期(总第 318 期)

目 次

理论分析

- 同塔四回线接地距离保护的分析和应用 张颖, 邵能灵(1)
- 计及环保与需求响应的多目标中短期交易计划修正 侯贺飞, 刘俊勇, 刘友波, 等(7)
- 聚类算法在电网故障元件定位应用中的研究 徐岩, 刘金生, 张亚刚, 等(13)
- 直驱式混合励磁风力发电系统控制策略的研究 赵梅花, 阮毅, 杨勇, 等(19)
- 电力系统动态等值中原动机调速系统聚合的研究 孙素琴, 蒋周士, 周海强, 等(24)
- 基于贝叶斯网络和故障区域识别的电网故障诊断研究 何小飞, 童晓阳, 周曙(29)

应用研究

- 经验模态分解在单相自适应重合闸中的应用 兰华, 艾涛, 李扬(35)
- 水电站水库调度图的优化方法与应用——基于混合模拟退火遗传算法 邵琳, 钰丽萍, 黄海涛, 等(40)
- 小电流接地系统单相接地故障选线方法探究 鲁改凤, 化雨, 金小兵, 等(44)
- 基于停电区域及广域同步信息的电网故障快速诊断研究 戴志辉, 李强(50)
- 基于预测直接电流控制的 APF 死区效应补偿 张波, 唐昆明, 周小平, 等(54)
- 数字化变电站网络化二次系统研究与应用 王锐, 曹丽璐, 杨东海, 等(59)
- 粒子群优化的神经网络模型在短期负荷预测中的应用 陆宁, 周建中, 何耀耀(65)
- 基于测试模板的继电保护装置自动测试技术研究与应用 郑新才, 丁卫华, 韩潇, 等(69)
- 基于 FTU 和“S”信号注入法的配电网接地故障定位技术的研究 杜刚, 刘迅, 苏高峰(73)
- 继电保护的现状与思考 孙建波, 廖永红, 权宪军, 等(77)
- 锦标赛蚁群算法在无功优化中的应用研究 阮仁俊, 何冰, 孔德诗, 等(80)
- 文本典型票的操作序列解析算法 何锡点, 李江林, 李献伟, 等(86)
- 天津电网电压稳定研究 刘丽霞, 黄志刚, 李娟, 等(90)

设计开发

- 全数字化保护系统性能测试方案设计(二)性能参数与执行方案设计 杨丽, 赵建国, Peter A. Crossley, 等(97)
- 一种同杆并架双回线接地距离保护方案 宋国兵, 刘志良, 康小宁, 等(102)
- 基于虚拟仪器的光纤电压互感器数字化实现 肖庆亮, 李传生, 张朝阳, 等(107)
- 电流差动保护中光纤通讯系统的设计 郭震, 周俊华, 宋一丁, 等(111)
- 电流互感器二次回路故障智能检测方法研究与设计实现 肖勇, 周尚礼(115)
- 基于 ZigBee 的变电站监测报警系统 梁湖辉, 张峰, 常冲, 等(121)
- DPR360ARC 弧光保护系统设计 李从飞, 陈凡, 鲁雅斌, 等(125)

工程应用

- 基于 WAMS 系统的甘肃陇南电网大负荷扰动试验 周喜超, 智勇, 郑伟, 等(129)
- OMICRON 测试仪在数字化保护装置测试中的应用 何刚, 胡宝, 陈强林, 等(132)
- 利用数字通道传输自动化信息的方案研究 冯毅, 林榕, 冯岩, 等(135)
- 一起断路器防跳回路异常分析及改造 颜华敏, 顾国平, 陆敏安, 等(138)
- 基于分相法的牵引供电系统等值阻抗分析及对距离保护的校核 王敬军, 张予鄂, 刘华, 等(141)
- 因接地不良引起的二次设备烧毁事故 湛志成, 郭化冰, 苗智峰(145)
- 一起线路接地故障引起机组主变保护误动的事故分析 周文, 毛志强, 毛志芳, 等(149)

Power System Protection and Control

(Semimonthly)

Vol. 38 No. 12(Ser. 318)

June 16, 2010

CONTENTS

Theoretical Analysis

- Analysis of ground distance protection for quadruple-circuit transmission lines on the same tower ZHANG Ying, TAI Neng-ling(1)
- Multi-objective medium and short-term trade planning revision considering environmental protection and demand response HOU He-fei, LIU Jun-yong, LIU You-bo, et al(7)
- Study of application of hierarchical cluster analysis in power net fault location XU Yan, LIU Jin-sheng, ZHANG Ya-gang, et al(13)
- Control strategy study on direct-driven type hybrid excitation wind power system ZHAO Mei-hua, RUAN Yi, YANG Yong, et al(19)
- Aggregation of turbine and governing system for dynamic equivalents of power systems SUN Su-qin, JIANG Zhou-shi, ZHOU Hai-qiang, et al(24)
- Power system fault diagnosis based on Bayesian network and fault section location HE Xiao-fei, TONG Xiao-yang, ZHOU Shu(29)

Application Research

- Application of EMD on single-pole adaptive reclosure of transmission LAN Hua, AI Tao, LI Yang(35)
- Optimization of the reservoir operation chart of hydropower station and its application—based on hybrid genetic algorithm and simulated annealing SHAO Lin, WANG Li-ping, HUANG Hai-tao, et al(40)
- Research on a method of fault line selection for single-phase earth fault in ineffectively grounded power systems LU Gai-feng, HUA Yu, JIN Xiao-bing, et al(44)
- Fault diagnosis based on power failure zone and wide-area synchronization information DAI Zhi-hui, LI Qiang(50)
- Dead-time effect compensation of APF based on predictive direct current control ZHANG Bo, TANG Kun-ming, ZHOU Xiao-ping, et al(54)
- Research and application of network secondary systems in digital substation WANG Rui, CAO Li-lu, YANG Dong-hai, et al(59)
- Particle swarm optimization-based neural network model for short-term load forecasting LU Ning, ZHOU Jian-zhong, HE Yao-yao(65)
- Research and realization of autotest technology for protection relays based on test template ZHENG Xin-cai, DING Wei-hua, HAN Xiao, et al(69)
- Research on technology of grounding fault location combining FTU and "S" signal injecting method in distribution grid DU Gang, LIU Xun, SU Gao-feng(73)
- The status quo and thinking of relay protection SUN Jian-bo, LIAO Yong-hong, QUAN Xian-jun, et al(77)
- Research on tournament-based ant colony algorithm for reactive power optimization RUAN Ren-jun, HE Bing, KONG De-shi, et al(80)
- An algorithm to parse operation sequence of text typical operating-order-sheet HE Xi-dian, LI Jiang-lin, LI Xian-wei, et al(86)
- Research on voltage stability of Tianjin power grid LIU Li-xia, HUANG Zhi-gang, LI Juan, et al(90)

Design and Development

- Design of performance testing schemes for all-digital protection systems part two performance indices and implementation methodology design YANG Li, ZHAO Jian-guo, Peter A. Crossley, et al(97)
- A scheme for ground distance protection of parallel transmission lines SONG Guo-bing, LIU Zhi-liang, KANG Xiao-ning, et al(102)
- Digital realization of optical fiber voltage transformer based on virtual instrument XIAO Qing-liang, LI Chuan-sheng, ZHANG Chao-yang, et al(107)
- Design of fiber-optical communication system in current differential protection GUO Zhen, ZHOU Jun-hua, SONG Yi-ding, et al(111)
- Design and implementation of intelligent detection method for secondary side circuit fault of current transformer XIAO Yong, ZHOU Shang-li(115)
- ZigBee-based substation monitoring and alarming system LIANG Hu-hui, ZHANG Feng, CHANG Chong, et al(121)
- Design of arc protection relay system DPR360ARC LI Cong-fei, CHEN Fan, LU Ya-bin, et al(125)

Engineering Application

- Large load disturbance test based on WAMS in Long Nan of Gansu power grid ZHOU Xi-chao, ZHI Yong, ZHENG Wei, et al(129)
- OMI CRON tester in digital protection device test HE Gang, HU Bao, CHEN Qiang-lin, et al(132)
- Study of transferring automation information by using digital channel FENG Yi, LIN Rong, FENG Yan, et al(135)
- Analysis and reform of an abnormal phenomenon on breaker anti-jumping circuit YAN Hua-min, GU Guo-ping, LU Min-an, et al(138)
- Analysis on the equivalent impedances based on respective phase method in traction power supply system for electrified railway and the check-back for line distance protection WANG Jing-jun, ZHANG Yu-e, LIU Hua, et al(141)
- A burnout accident of secondary devices caused by bad grounding ZHAN Zhi-cheng, GUO Hua-bing, MIAO Zhi-feng(145)
- Analysis of the main transformer differential protection maloperation of generator units caused by single-phase ground fault ZHOU Wen, MAO Zhi-qiang, MAO Zhi-fang, et al(149)