

电力系统保护与控制

第 39 卷第 1 期(总第 331 期)

目次

理论分析

- 应用 MPC 和轨迹灵敏度技术实现最优协调电压控制..... 刘水平,刘明波,谢敏(1)
- 发电权交易的阻塞风险规避模型..... 艾东平,鲍海,杨以涵(7)
- 基于风电极限穿透功率的经济调度优化模型研究..... 袁铁江,晁勤,李义岩,等(15)
- 基于多 Agent 遗传算法的水电厂机组优化组合研究与实现..... 孟安波,刘永前,徐海波(23)
- 基于改进型 ANFIS 的负荷密度指标求取新方法..... 周淦,孙威,张昀,等(29)
- 与波速无关的输电线路双端行波故障测距研究..... 尹晓光,宋琳琳,尤志,等(35)
- 计及直流控制方式转换和换流变变比调整的交直流潮流算法研究..... 谭涛亮,张尧(40)
- 含 VSC-HVDC 的交直流系统可用输电能力计算..... 李国庆,张健(46)
- 一种改进的基于 IOWA 算子的组合预测方法及应用..... 教培,牟龙华(53)

应用研究

- 基于互信息最小化盲源分离准则的电压闪变检测方法..... 国添栋,王祁(57)
- 光纤电流互感器噪声特征及建模方法研究..... 王立辉,伍雪峰,孙健,等(62)
- 大系统特定模式动态降阶方法的误差分析..... 李奎奎,王克文,邱磊,等(67)
- 电力系统扰动后稳态频率预测快速算法..... 赵茜茜,王晓茹(72)
- 结合强势卖方期权的电力远期合同模型..... 王访,邹锐标(78)
- 基于 STFT 变换和 DAGSVMs 的电能质量扰动识别..... 章思师,刘前进(83)
- 考虑分布式发电的配电网规划问题的研究..... 徐玉琴,李雪冬,张继刚,等(87)
- 基于改进偏最小二乘法的系统谐波阻抗及谐波发射水平估算..... 李丽,马宏忠,姜宁,等(92)
- 基于改进蚁群算法的变压器诊断数据的约简..... 田冰冰,刘念,刘琨,等(96)
- 基于最小一乘法的 GM(1,1)模型及在负荷预测中的应用..... 周德强(100)

设计开发

- 电气化铁道用多电平电能质量调节器及其控制研究..... 周龙华,王飞,李湘峰(104)
- 电能在线计量分析算法设计与实现..... 杨福刚(111)
- 电厂并网运行管理及辅助服务管理系统的研发..... 田雄,姚建刚,樊陈雄,等(118)
- 一种新的分布式发电孤岛检测方法..... 甘忠,李正天(123)

工程应用

- 500 kV 变压器中压侧及 220 kV 出线零序过流保护配置及整定方法研究..... 彭海平(128)
- 旧变电站断路器失灵保护改造探讨..... 张永伍,谢颂果,任毅,等(132)
- T 接线光纤差动保护的实用通信方案..... 李铁仲,胡叶宾,邓茂军,等(135)

综述

- 分布式发电系统的孤岛检测方法研究..... 张有兵,穆森婕,翁国庆(139)
- 电力系统短期负荷预测方法综述..... 廖旋煊,胡智宏,马莹莹,等(147)

Power System Protection and Control

(Semimonthly)

Vol. 39 No. 1(Ser. 331)

January 1, 2011

CONTENTS

Theoretical Analysis

- Optimal coordinated voltage control using MPC and trajectory sensitivity technique *LIU Shui-ping, LIU Ming-bo, XIE Min*(1)
- Congestion risk hedging model for generation rights trade *AI Dong-ping, BAO Hai, YANG Yi-han*(7)
- Research on optimization model of economic dispatch based on wind power penetration limit
..... *YUAN Tie-jiang, CHAO Qin, LI Yi-yan, et al*(15)
- Research and implementation of unit optimization combination of hydropower plant based on multi-Agent genetic algorithm
..... *MENG An-bo, LIU Yong-qian, XU Hai-bo*(23)
- A new method to obtain load density based on improved ANFIS *ZHOU Quan, SUN Wei, ZHANG Yun, et al*(29)
- Study of fault locating for transmission line double terminal traveling waves unrelated to wave speed
..... *YIN Xiao-guang, SONG Lin-lin, YOU Zhi, et al*(35)
- Study on AC/DC power flow algorithm considering the switching of DC control mode and converter transformer ratio
..... *TAN Tao-liang, ZHANG Yao*(40)
- Available transfer capability calculation for AC/DC systems with VSC-HVDC *LI Guo-qing, ZHANG Jian*(46)
- An improved combination forecasting method based on IOWA operator and application *AO Pei, MU Long-hua*(53)

Application Research

- Detection of voltage flicker based on blind source separation of minimum mutual information *GUO Tian-dong, WANG Qi*(57)
- Research on character and modeling method of noise in fiber optic current transducer(FOCT)
..... *WANG Li-hui, WU Xue-feng, SUN Jian, et al*(62)
- Error analysis of the dynamic order reduction approach for specific mode in large-scale systems
..... *LI Kui-kui, WANG Ke-wen, QIU Lei, et al*(67)
- A fast predictive algorithm for power system post disturbances steady frequency *ZHAO Qian-qian, WANG Xiao-ru*(72)
- Modeling for electricity forward contracts combining with power put option *WANG Fang, ZOU Rui-biao*(78)
- Power quality disturbances detection and identification based on STFT transform and DAGSVMs *QIN Si-shi, LIU Qian-jin*(83)
- Research on distribution network planning considering DGs *XU Yu-qin, LI Xue-dong, ZHANG Ji-gang, et al*(87)
- Assessing harmonic impedance and the harmonic emission level based on improved partial least-squares regression method
..... *LI Li, MA Hong-zhong, JIANG Ning, et al*(92)
- The transformer diagnosis data reduction based on improved ant colony algorithm *TIAN Bing-bing, LIU Nian, LIU Kun, et al*(96)
- GM(1,1) model based on least absolute deviation and its application in the power load forecasting *ZHOU De-qiang*(100)

Design and Development

- Study on multi-level power quality compensator for electrified railway *ZHOU Long-hua, WANG Fei, LI Xiang-feng*(104)
- Design and implementation of power online analysis and measurement algorithm *YANG Fu-gang*(111)
- Research and design of grid parallel operation and auxiliary services management system
..... *TIAN Xiong, YAO Jian-gang, GONG Chen-xiong, et al*(118)
- A novel islanding detection method of distributed generations *GAN Zhong, LI Zheng-tian*(123)

Engineering Application

- Research on the configuration and the setting method for the zero sequence overcurrent protection at the middle-pressure side of the 500 kV transformer and in the 220 kV outgoing line *PENG Hai-ping*(128)
- Discussion on the improvement of breaker failure protection for old substations ... *ZHANG Yong-wu, XIE Song-guo, REN Yi, et al*(132)
- The practicable communication scheme for fiber differential protection of T-connected transmission lines
..... *LI Tie-zhong, HU Ye-bin, DENG Mao-jun, et al*(135)

Survey

- Research on islanding detection of distributed power generation systems *ZHANG You-bing, MU Miao-jie, WENG Guo-qing*(139)
- Review of the short-term load forecasting methods of electric power system *LIAO Ni-huan, HU Zhi-hong, MA Ying-ying, et al*(147)