



电压波动与闪变实时检测的数字化实现及仿真

刘承员¹, 刘桂英², 粟时平²

(1. 惠州市新科工程建设监理有限公司, 广东 惠州516001; 2. 长沙理工大学 电气与信息工程学院, 长沙410076)

摘要: 基于平波调解检波法和IEC推荐的闪变检测原理建立了电压波动与闪变实时检测的数字化实现模型, 并利用MATLAB进行了仿真。结果显示, 数字化实验模型有一定误差, 建议在设计数字滤波器时加入窗函数以提高滤波效果。

关键词: 电压波动; 电压闪变; 实时检测; 电能质量; 数字化

Digitallization Realization and Simulation on Real Time Detecting of Voltage Fluctuation and Flicker

LIU Cheng-yuan¹, LIU Gui-ying², SU Shi-ping²

(1. Huizhou Xinkechuang Project Management Company Ltd., Huizhou, Guangdong 516001, China;

2. Electrics & Infomation engineering College , Changsha University of Science & Technology, Changsha 410076, China)

Abstract: Based on the detection method of smooth demodulation and recommendatory detection principle of voltage flicker by IEC, the digitallization realization model of real-time detection of voltage fluctuation and voltage flicker are established, and simulations are done with MATLAB. The results show there are some errors in the proposed method, and it is suggested that a window function be adopted to enhance the filtering effect when the digital filter is designed.

Key words: voltage fluctuation; voltage flicker; real-time detecting; power quality; digitallization

点击此处下载

关闭窗口