Abstract

Poor power quality can cause serious problems causing malfunction, instability, short lifetime, memory loss and data errors of sensitive loads etc. Electric power quality has become an important issue now days. To improve the power quality, sources of disturbances as well as detection techniques must be known. The purpose of this paper is to present different detection techniques for sag, swell, harmonics and make comparison between them. Signal processing techniques are used to extract features from measured data and detect triggering points or transition segment of disturbances.

References


Index Terms

Computer Science
Power Systems

Keywords
Digital storage oscilloscope (DSO)  Discrete Fourier transforms (DFT)  Fast Fourier transforms (FFT)

Root Mean Square (rms)

single line to ground (SLG) fault

and Short Time Fourier transforms (STFT)