Power quality improvement using reference signal method for DVR control in distribution systems

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Abstract:

in this paper the reference signal method has been offered to control the DVR for solving power quality problems including sag, swell and flicker. Simulation of the recommended method was carried out on Matlab simulink software. This method is very simple without any complexity of calculations. The results of simulation show that the strategy is able to provide the desirable power quality in the presence of voltage disturbances.

Key words*:* power quality, DVR, sag, swell, flicker

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