

## Article Abstract

Title:	Mitigation of voltage sag using DVR under feedback and feedforward control scheme
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Abstract:	The paper deals with Dynamic Voltage Restorer (DVR) that aims at the integration of series active filter with minimum VA handling. The DVR not only regulates the voltage at load end but also acts as series active filter. The scheme of DVR is modeled and simulated with MATLAB/Simulink under feedback and feedforward controller. It is also thoroughly analyzed, both from the point of view of the choice of the components and their ratings. The proposed scheme provides stability under varying gains thus eliminating the problem of tuning of conventional proportional and integral controller and improves the speed of response of the device. The results of simulation for the proposed scheme are presented.
Keywords:	DVR, Minimum VA loading, PWM Technique, Feedback and Feedforward Controller, Matlab/Simulink