Abstract

A review on unified power quality conditioner control techniques assesses the feasibility and performance of different controls used to enhance Unified Power Quality Conditioner (UPQC) for making the efficient utilization at consumer levels. This is intended to present a broad overview on the unified power quality conditioner system control strategies used for the improvement of various power quality issues with recent developments in the field. It is noticed that several researchers have used different controls to check performance of the power system
with management single-phase and three-phase controls for the UPQC based on the unique function, task, application, or topology under consideration. Currently, there are so many industries using a high technology for the manufacturing and requiring a high quality of power supply. Therefore, the paper is focusing mainly on power quality disturbance and the control technique used to improve the quality of delivered power such as Unified Power Quality Conditioner (UPQC).

References

- Handy Fortin Blanchette, "An advanced control algorithm for Series hybrid Active filter adopting UPQC behaviour."

A Review on Unified Power Quality Conditioner Control Techniques


**Index Terms**

Computer Science  
Control System

**Keywords**

Power Quality  
Upqc  
Active Filters  
P-q-r Power Theory  
D-q Theory  
saf  
Paf  
Current Compensation  
Voltage Compensation