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Application of rent controller in shunt active power filter

***¹Kaushal Prasad Tiwari, ²Devdhan Khandekar, ³Anjail, ⁴Rennuka**

^{*1}Assistant Professor, Bhopal institute of Technology and Management, Bhopal, MP (India)

^{2,3,4}M.Tech Student, BIT, Bhopal, MP (India)

**Corresponding Author: Kaushal Prasad Tiwari
Email: kaushalt6@gmail.com*

Abstract:

This paper presents the analysis and the application of rent controller in an active power filter (APF). The two capacitor banks in which the DC-capacitor a PWM voltage-source electronic converter with three legs and has to be split to accommodate the neutral wire of the SAPF four wires. The neutral wire is connected to the middle point. In this way a traditional three-leg electronic converter can be of the DC-capacitor voltage. The controller is a two-level nested controller. This paper focuses on the neutral-wire current control and on the balance control of the DC-capacitor voltage.

Keywords:

Harmonic control, Power quality Shunt active power filters, Voltage-source inverter