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| **1.** | **Authors:** | **First Author Name, Second Author Name, Third Author Name** |
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| **Abstract:** Nowadays, the usage of non-linear loads in power system is more sufficient. For example, UPS, inverters, converters, etc. These loads make the supply current as non-sinusoidal and distorted form, which is called harmonics. At this time Active power filters have been developed to improve power quality. In this Paper, a Shunt Active Power Filter (SAPF) control scheme has proposed to eliminate the current harmonics and improve the power quality. The shunt active power filter controlled by using the different controllers such as (PI, PID, Fuzzy logic, Pq Theory and hysteresis controller). In our proposed system, Hysteresis controller and Instantaneous power theory were used to reduce the harmonics current using the shunt active power filter. And both controllers’ results are compared, and then find which controller is most suitable to control the shunt active power filter in term of total harmonic reduction. MATLAB/SIMULINK power system toolbox is used to simulate the proposed system. **Keywords:** Power Quality, Shunt Active Power Filter (SAPF), Hysteresis Current Controller, Harmonics, MATLAB/Simulink.**References:**1. Qian Liu, Li Peng, Yong Kang, Shiying Tang, Deliang Wu, and Yu Qi “A Novel Design and Optimization Method of anLCL Filter for a Shunt Active Power Filter” IEEE Transactions on industrial electronics, vol. 61, No. 8, pp:4000-4010,august 2014.
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| **2.** | **Authors:** | **First Author Name, Second Author Name, Third Author Name** |
| **Paper Title:** | **Paper Title Name** |
| **Abstract:** This paper presents the study of the effects of shorting posts for C-shaped and H-shaped microstrip patch antennas for GPS application. A C-shaped patch and H-shaped patch loadedmicrostrip patch antenna for GPS frequency (1.575 GHz) are designed and simulated. The shorted microstrip patch antenna is a compact antenna but it suffers from the disadvantage that more number of shorting pins is required thereby making fabrication process harder especially when manufactured in larger quantities. An alternate way to reduce the resonance frequency of the microstrip antenna is to increase the path length of the surface by cutting slots in the radiating patch. The slot is taken as the capacitive reactance in the patch.**Keywords:** Slot-Loaded Patch, Microstrip Patch Antenna, Global Positioning Satellite (GPS), Shorted.**References:**1. W.C. Liu and P.C. Kao, “Design of a probe-fed H-shaped microstrip antenna for circular polarization”, Journal of Electromagnetic Waves and Applications, vol. 21, pp. 857-864, 2007.
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 | **4-8** |

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