Abstract

With the advancement of IT, various high as well as low powered electronics and electrical devices have penetrated in the commercial and domestic markets. Usages of such types of electronics system are found to give rise occasionally to harmonics owing to non-linear loads. From more than a decade, there are sets of effective research contribution towards introducing a technique for suppression such harmonics using filters. However, till date there is no evidence of any standard model or framework or any landmark ideas that has solved the issue of harmonic suppression in totality. Thus, the intention of this manuscript is to discuss harmonics with respect to active power filters where the prominent focus is laid down to understand the effectiveness of priorly introduced techniques. The study presents a state-of-art review of techniques of harmonic suppression with an aid of the research gap.

References

- Kumar, D. P. 2007. Investigations on shunt active power filter for power quality improvement. Department of Electrical Engineering National Institute of Technology Rourkela
- Pacis, M. C. , Martinez, J. M. , and Tecson, J. V. 2010. Modelling and Simulation of Active Power Filters for Harmonic Compensation, Voltage Sags and Swells Mitigation and
Power Factor Correction. Proceedings of the World Congress on Engineering and Computer Science, Vol II
- Routimo, M. 2008. Developing a voltage-source shunt active power filter for improving power quality. Tampere University of Technology
- Gowtami, D. , Ravindra, S. , Kalavathi, S. S. 2012. Implementation of ANN Based
An Insight to Harmonic Suppression Techniques with Power Filters in Power Electronics


- Pavlanin, R. , Marinelli, M. , Zigmund, B. 2011. Different View on PQ Theory Used in the Control Algorithm of Active Power Filters. Advances in Electrical and Electronic Engineering, Vol. 5, No. 1-2, pp. 55-60

Index Terms

Computer Science Circuit And Systems

Keywords

Active Power Filter Harmonic Passive Power Filter Power Quality