











- Controle & Automação Sociedade Brasileira de Automatica* 15, no. 1 (2004): 78-84.
- [5] Akagi, Hirofumi, Edson Hirokazu Watanabe, and Mauricio Aredes. *Instantaneous power theory and applications to power conditioning*. Vol. 31. John Wiley & Sons, 2007.
- [6] Marques, G. D. "A comparison of active power filter control methods in unbalanced and non sinusoidal conditions." In *Industrial Electronics Society 1998. IECON'98. Proceedings of the 24th Annual Conference of the IEEE*, vol. 1, pp. 444-449. IEEE, 1998.
- [7] Afonso, João L., Maurício Aredes, Edson Watanabe, and Julio S. Martins. "Shunt active filter for power quality improvement." (2001).
- [8] Afonso, João L., Carlos Couto, and Júlio S. Martins. "Active filters with control based on the pq theory." (2000)
- [9] Afonso, João L., M. J. Freitas, and Júlio S. Martins. "pq Theory power components calculations." In *Industrial Electronics, 2003. ISIE'03. 2003 IEEE International Symposium on*, vol. 1, pp. 385- 390. IEEE, 2003.
- [10] Salim, Chennai, and Benchouia Mohamed Toufik. "Intelligent controllers for shunt active filter to compensate current harmonics based on SRF and SCR control strategies." *International Journal on Electrical Engineering and Informatics* 3, no. 3 (2011): 372-393.
- [11] Pinto, J. G., Pedro Neves, Domingos Gonçalves, and João L. Afonso. "Field results on developed three-phase four-wire Shunt Active Power Filters." In *Industrial Electronics, 2009. IECON'09. 35th Annual Conference of IEEE*, pp. 480-485. IEEE, 2009.
- [12] Kale, Murat, and Engin Özdemir. "Harmonic and reactive power compensation with shunt active power filter under non-ideal mains voltage." *Electric Power Systems Research* 74, no. 3 (2005): 363-370.
- [13] Cui, Yu-long, Hong Liu, Jing-qin Wang, and Shu-guang Sun. "Simulation and reliability analysis of shunt active power filter based on instantaneous reactive power theory." *Journal of Zhejiang University SCIENCE A* 8, no. 3 (2007): 416-421.
- [14] Atan, Norani, and Zahrul Faizi Hussien. "An improvement of active power filter control methods in non-sinusoidal condition." In *Power and Energy Conference, 2008. PECon 2008. IEEE 2nd International*, pp. 345-350. IEEE, 2008.
- [15] Marks, John H., and Tim C. Green. "Predictive transient-following control of shunt and series active power filters." *Power Electronics, IEEE Transactions on* 17, no. 4 (2002): 574-584.
- [16] Bhattacharya, Avik, and Chandan Chakraborty. "A shunt active power filter with enhanced performance using ANN-based predictive and adaptive controllers." *Industrial Electronics, IEEE Transactions on* 58, no. 2 (2011): 421-428.
- [17] Rachmildha, Tri Desmana. "Optimized Combined System of Shunt Active Power Filters and Capacitor Banks." *International Journal on Electrical Engineering and Informatics* 3, no. 3 (2011): 326.
- [18] Bangia, Sakshi, P. R. Sharma, and Maneesha Garg. "Comparison of artificial intelligence techniques for the enhancement of power quality." In *Power, Energy and Control (ICPEC), 2013 International Conference on*, pp. 537-541. IEEE, 2013.
- [19] D. O. Abdeslam, P. Wira, J. Mercklé, and D. Flieller, "A new adaline approach for online voltage components extraction from unbalanced and perturbed power systems," *IECON Proc. (Industrial Electron. Conf.)*, pp. 4398–4403, 2006.
- [20] L. Merabet, S. Saad, D. O. Abdeslam, and a. Omeiri, "A comparative study of harmonic currents extraction by simulation and implementation," *Int. J. Electr. Power Energy Syst.*, vol. 53, no. 1, pp. 507–514, 2013.
- [21] A. Madaline and B. Widrow, "Adaline/Madaline."

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