

## DAFTAR PUSTAKA

- Aboutaleb, A. M., Azazi, H. Z., Osheba, D. S. M., & El-Sabbe, A. E. (2020). A shunt active filter for compensating harmonics and unbalance in three-phase four-wire systems. *International Journal of Electronics*, 107(8), 1195–1215. <https://doi.org/10.1080/00207217.2019.1703144>
- Adi Wirajaya, I. P., Rinas, I. W., & Sukerayasa, I. W. (2019). Studi Analisa Pengaruh Total Harmonic Distortion (THD) terhadap Rugi-Rugi, Efisiensi, dan Kapasitas Kerja Transformator pada Penyulang Kerobokan. *Jurnal SPEKTRUM*, 6(2), 121. <https://doi.org/10.24843/spektrum.2019.v06.i02.p17>
- Ali, C., Fella, M., Kessal, A., & Benkhoris, M. F. F. (2016). Four Leg DSTATCOM based on Synchronous Reference Frame Theory with Enhanced Phase Locked Loop for Compensating a Four Wire Distribution Network under Unbalanced PCC Voltages and Loads. *Journal of Power Technologies*, April. <http://papers.itc.pw.edu.pl/index.php/JPT/article/view/789>
- Assaffat, L., Artini D. P., S., & Haddin, M. (2013). *Pemodelan dan Simulasi Filter Aktif Shunt untuk Perbaikan Harmonisa sebagai Upaya Penghematan Energi Listrik*. 6(1), 47–60.
- Babu P, N., Choudhury, B. K., Kar, B., & Halder, B. (2017). Modelling of a Hybrid Active Power Filter for Power Quality Improvement using Synchronous Reference Frame Theory. *International Journal of Engineering Research And*, V6(03). <https://doi.org/10.17577/ijertv6is030365>
- Budiskj. (2022). *Cara Membedakan Titik Tetap dan Titik Mengambang*. <https://www.sridianti.com/umum/cara-membedakan-titik-tetap-dan-titik-mengambang.html>

- Chavan, U. M., Thorat, A. R., & Bhosale, S. S. (2018). Shunt Active Filter for Harmonic Compensation Using Fuzzy Logic Technique. *Proceedings of the 2018 International Conference on Current Trends towards Converging Technologies, ICCTCT 2018*, 1–6. <https://doi.org/10.1109/ICCTCT.2018.8550962>
- Cherif, A. Y., Hicham, L., & Kamel, B. (2018). Implementation Of Finite Set Model Predictive Current Control for Shunt Active Filter. *2018 9th International Renewable Energy Congress, IREC 2018, Irec*, 1–6. <https://doi.org/10.1109/IREC.2018.8362482>
- Dermawan, E., & Rahman, R. L. (2018). Analisis Pengaruh Distorsi Harmonisa terhadap Deviasi Pengukuran Energi Listrik pada kWh Meter. *Jurnal Elektrum*, 15(2), 7–16.
- Dinata, I. putu J. A., Rinas, I. W., & Wijaya, I. W. A. (2019). *Pengaruh Fuzzy Logic Controller Pada Pengoperasian Filter Aktif Shunt Terhadap Penurunan I THD dan Rugi- Rugi Daya Pada Sistem Kelistrikan RSUD Klungkung*. 6(3), 141–147.
- El-Sotouhy, M. M., Zaki, A. M., Mansour, A. A., El-Sattar, A. A., & Marei, M. I. (2019). Active Filter Based on Four-Leg Inverter and PQ Theory. *2019 21st International Middle East Power Systems Conference, MEPCON 2019 - Proceedings*, 1057–1062. <https://doi.org/10.1109/MEPCON47431.2019.9007923>
- Fatunmbi, R. O., Okoye, O. O., Lasabi, O. A., & Davidson, I. E. (2017). FPGA implementation of open-loop controller for five-level three phase modular multilevel converter. *2017 IEEE AFRICON: Science, Technology and*

*Innovation for Africa, AFRICON 2017*, 1345–1350.  
<https://doi.org/10.1109/AFRCON.2017.8095677>

Ferreira, S. C., Gonzatti, R. B., Pereira, R. R., Da Silva, C. H., Da Silva, L. E. B., & Lambert-Torres, G. (2018). Finite control set model predictive control for dynamic reactive power compensation with hybrid active power filters. *IEEE Transactions on Industrial Electronics*, 65(3), 2608–2617.  
<https://doi.org/10.1109/TIE.2017.2740819>

Friendly. (2017). Perancangan Mikroprosesor 8 Bit Dengan Menggunakan Bahasa VHDL pada FPGA Xilinx Spartan 3. *Teknovasi*, 4(1), 10–27.

Gautam, A. A., & Laxmi, V. (2020). FPGA controlled 3phase voltage source inverter. *Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020, Icscit*, 522–528.  
<https://doi.org/10.1109/ICSSIT48917.2020.9214152>

Gautam, A. K., Singh, S. P., Pandey, J. P., Payasi, R. P., & Gupta, N. (2016). *Performance Investigation of Unified Power Quality Conditioner for Power Quality Improvement in Distribution System*.

Jarad, S. B., Lohar, V. D., Choukate, S. P., & Mangate, S. D. (2018). Automatic Optimization and Control of Power Factor, Reactive Power and Reduction of THD for Linear and Nonlinear Load by Using Arduino UNO. *Proceedings of the International Conference on Inventive Communication and Computational Technologies, ICICCT 2018, Iicct*, 1128–1132.  
<https://doi.org/10.1109/ICICCT.2018.8473191>

Jichkar, C. D., & Sondkar, S. Y. (2017). Comparative study of real time implementation of LabVIEW based MPC controller and PID controller for

- flow control loop. *2017 2nd International Conference for Convergence in Technology, I2CT 2017, 2017-Janua*, 464–470.  
<https://doi.org/10.1109/I2CT.2017.8226172>
- Karimi, S., Poure, P., & Saadate, S. (2008). FPGA in the loop prototyping methodology for fully digital power electronics system control design. *International Review of Electrical Engineering*, 3(2), 281–288.
- Kovacs, M., Csuka, B., & Kollar, Z. (2017). Effects of quantization on Golay sequence based channel estimation. *2017 27th International Conference Radioelektronika, RADIOELEKTRONIKA 2017, April*.  
<https://doi.org/10.1109/RADIOELEK.2017.7936645>
- Meliala, S. (2011). *Simulasi Filter Aktif Seri sebagai Kompensasi Harmonisa pada Sistem Saluran Tegangan Rendah*. 4–16.
- Nugroho, T., & Reza, I. (2018). Analisis Pengukuran Dan Perhitungan Total Harmonic Distortion (Thd) Pada Beban Non Linier. *128 Jurnal Elektro*, 2(3), 1–8.
- Odinanto, T., Winardi, S., & Saputra, K. H. (2008). *Perencanaan Filter Aktif Tiga Fasa Menggunakan Kontrol Propotional Integral Derivative ( PID ) Untuk Mereduksi Harmonisa Pada Sistem Tenaga Listrik*. 1–12.
- Prabowo, D. N., Haddin, M., & Nugroho, D. (2015). *Reduksi Harmonisa Dengan Filter Aktif Shunt Berbasis Matlab / Simulink*. 8(2).
- Rajapakse, G., Jayasinghe, S., Fleming, A., & Negnevitsky, M. (2017). A model predictive control-based power converter system for oscillating water column wave energy converters. *Energies*, 10(10).  
<https://doi.org/10.3390/en10101631>

- Rashid, M. H. (2014). *Power electronics : Devices, Circuits and Applications* (4th ed.).
- Rashid, M. H. (2018). *POWER ELECTRONICS HANDBOOK* (Vol. 4, Issue 1).
- Rinas, I. W. (2013). Analisis Perbandingan Penggunaan Filter Pasif Dan Filter Aktif Untuk Menanggulangi Thd Pada Sistem Kelistrikan Di Ruang Puskom Jurusan Teknik Elektro Fakultas Teknik Universitas Udayana. *Majalah Ilmiah Teknologi Elektro*, 10(1).
- Rodriguez, J., & Cortes, P. (2012). *Predictive Control of Power Converters and Electrical Drives* (1st ed.). A John Wiley and Sons, Ltd.  
<https://doi.org/10.1002/9781119941446>
- Sathiyarayanan, T., & Mishra, S. (2016). Synchronous reference frame theory based model predictive control for grid connected photovoltaic systems. *IFAC-PapersOnLine*, 49(1), 766–771.  
<https://doi.org/10.1016/j.ifacol.2016.03.149>
- Saxena, A., & Gupta, G. M. (2016). *Active Power Filter For Power Quality Improvement*. 943–951.
- Setiyono, & Dwinanto, B. (2021). REDUKSI HARMONISA MENGGUNAKAN TAPIS DAYA AKTIF BERBASIS SYNCHROUNOUS REFERENCE FRAME DQ PADA SISTEM DAYA TIGA FASA. *Jurnal Ilmiah Teknologi Dan Rekayasa*, 26, 13–24.
- Setiyono, Wibowo, E. P., & Soerowirdjo, B. (2020). *Eliminasi Harmonisa Dengan Tapis Aktif Paralel Berbasis Teori Daya Sesaat Aktif Reaktif (pq) Pada Jaringan Sistem Daya Fasa Tunggal*. 19(4), 135–144.
- Sibuea, L., & Thayib, R. (2014). *Analisa Unjuk Kerja Filter Daya Hybrid Untuk*

*Mengurangi Total Harmonisa Distorsi Pada Penggunaan Beban Non-Linear.*  
February, 1–9.

Singh, B., Chandra, A., & Al-Haddad, K. (2015). *Power Quality Problems And Mitigation Techniques.*

Singh, V. K., Tripathi, R. N., & Hanamoto, T. (2018). HIL co-simulation of finite set-model predictive control using FPGA for a three-phase VSI system. *Energies*, 11(4), 1–15. <https://doi.org/10.3390/en11040909>

Sriranjani, R., & Jayalalitha, S. (2017). Fundamental Reference Signal Generation for Shunt Active Filter for Harmonic and Reactive Power Mitigation using Xilinx System Generator. *2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)*, 2, 2404–2410.

Sugiarto, H. (2012). Kajian Harmonisa Arus Dan Tegangan Listrik di Gedung Administrasi Politeknik Negeri Pontianak. *Vokasi*, 8(2), 80–89.

Suharto, I. (2013). *Simulasi Pengendali Filter Aktif Sebagai Upaya Memperbaiki Kualitas Daya Listrik Di Laboratorium Teknik Listrik Politeknik Negeri Pontianak.* 5(2), 7–12.

Talagalamani, S., & P, S. (2017). Analysis of P-Q and D-Q APF using Hysteresis and SPWM Techniques. *Ijireeice*, 5(6), 161–169. <https://doi.org/10.17148/ijireeice.2017.5628>

Tarisciotti, L., Formentini, A., Gaeta, A., Degano, M., Zanchetta, P., Rabbeni, R., & Pucci, M. (2017). Model Predictive Control for Shunt Active Filters with Fixed Switching Frequency. *IEEE Transactions on Industry Applications*, 53(1), 296–304. <https://doi.org/10.1109/TIA.2016.2606364>

Thamizh Thentral, T. M., Vijayakumar, K., & Jegatheesan, R. (2021). Performance

Comparison of Hybrid Active Power Filter for p-q Theory and SVPWM Technique. *International Journal of Electrical and Computer Engineering*, 11(1), 84–93. <https://doi.org/10.11591/ijece.v11i1.pp84-93>

Tjolleng, A. (2017). Pengantar pemrograman MATLAB: Panduan praktis belajar MATLAB. *ReasearchGate*.  
[https://www.researchgate.net/publication/334945947\\_Pengantar\\_pemrograman\\_MATLAB\\_Panduan\\_praktis\\_belajar\\_MATLAB](https://www.researchgate.net/publication/334945947_Pengantar_pemrograman_MATLAB_Panduan_praktis_belajar_MATLAB)

Yani, A. (2019). Pengaruh Harmonisa Terhadap Kesalahan Pengukuran Energi Listrik Pada Kwh Meter Analog/Digital. *Cetak) Buletin Utama Teknik*, 14(2), 1410–4520.

Yaramasu, V., & Wu, B. (2017). Model Predictive Control of Wind Energy Conversion Systems. In *Model Predictive Control of Wind Energy Conversion Systems*. <https://doi.org/10.1002/9781119082989>

Yudha, H. M. (2017). Kualitas Daya Listrik Pengaruh Dan Penanganannya. *Desiminasi Teknologi*, 5(2), 17–26.