# DAFTAR PUSTAKA


[1] Elisabet Oppeng, Bambang Widodo, and Robinson Purba, "Analisa Harmonisa Pembangkit Listrik Tenaga Surya (PLTS) Off-Grid 290 Wp Dengan Kombinasi Beban Linier Dan NonLinier Di Gedung Fakultas Teknik UKI - Jakarta Menggunakan MATLAB Simulink," *ektrokom: Jurnal Ilmiah Teknik Elektro*, vol. 7, no. 1, pp. 1–13, Mar. 2024.

[2] Fahmi Naufala Mumtaz, Indhana Sudiharto, and Ony Qudsi, "Shunt Active Power Filter untuk Meredam Harmonisa Beban Non-Linear Satu Fasa," *Electrician : Jurnal Rekayasa Dan Teknologi Elektro*, vol. 16, no. 1, pp. 9–19, Jan. 2022, Accessed: Apr. 02, 2025. [Online]. Available:https://electrician.unila.ac.id/index.php/ojs/article/view/220

[3] D. N. Prabowo, M. Haddin, and D. Nugroho, "Reduksi Harmonisa Dengan Filter Aktif Shunt Berbasis MATLAB/SIMULINK," *Media Elektrika*, vol. 8, 2016.

[4] Eva Magdalena Silalahi, "Analisa Harmonisa dan Faktor Daya Peralatan Listrik Rumah Tangga Pada Sistem Tegangan Rendah 220 V," *G-Tech: Jurnal Teknologi Terapan*, vol. 8, no. 4, pp. 2545–2556, Oct. 2024, doi: 10.70609/gtech.v8i4.5352.

[5] Eva Magdalena Silalahi, Bambang Widodo, and Robinson Purba, "Analisis Total Harmonic Distortion (THD) dan Arus Harmonik Akibat Penggunaan Lampu Hemat Energi (LHE) dan Light-Emitting Diode (LED) secara Kolektif Pada Jaringan Tegangan Rendah," *Jurnal Fokus Elektroda : Energi Listrik, Telekomunikasi, Komputer, Elektronika dan Kendali)*, vol. 6, no. 1, p. 54, Feb. 2021, doi: 10.33772/jfe.v6i1.16044.

[6] Feren Susanto, Eva Magdalena Silalahi, Stepanus, Bambang Widodo, and Robinson Purba, "Simulation of passive filter design to reduce Total Harmonic Distortion (THD) in Energy-Saving Lamps (LHE) and Light Emitting Diodes (LED)," *IOP Conf Ser Earth Environ Sci*, vol. 878,

no. 1, p. 012059, Oct. 2021, doi: 10.1088/1755-1315/878/1/012059.

[7] Antonius Doddy Tyas Prasetyo, Dery Elfando, and Eva Magdalena Silalahi, "Current Controller with FOPI Modification for VSI-based Active Power Filter," *Emitor: Jurnal Teknik Elektro*, vol. 25, no. 1, pp. 33–38, Mar. 2025, Accessed: Apr. 02, 2025. [Online]. Available: https://journals2.ums.ac.id/index.php/emitor/article/view/8522

[8] Antonius Doddy Tyas Prasetyo, Eva Magdalena Silalahi, Stepanus, Bambang Widodo, and Robinson Purba, "Reducing of total harmonic distortion by simulating passive filters to suppress harmonic currents with the case: Faculty of Engineering Building, Universitas Kristen Indonesia Jakarta," *IOP Conf Ser Earth Environ Sci*, vol. 878, no. 1, p. 012060, Oct. 2021, doi: 10.1088/1755-1315/878/1/012060.

[9] Dery Elfando, Eva Magdalena Silalahi, Stepanus, Bambang Widodo, and Robinson Purba, "Reducing of total harmonic distortion using passive filter simulation to suppress harmonic currents with the case: General Hospital, Universitas Kristen Indonesia Jakarta," *IOP Conf Ser Earth Environ Sci*, vol. 878, no. 1, p. 012061, Oct. 2021, doi: 10.1088/1755-1315/878/1/012061.

[10] I. D. G. B. S. Nugraha, C. G. I. Partha, and I. W. A. Wijaya, "Analisis Pengaruh Distorsi Harmonisa Pada Pemasangan Grid Tie Inverter Dengan Menggunakan Simulink MATLAB," *Majalah Ilmiah Teknologi Elektro*, vol. 16, no. 3, pp. 72–78, 2017.

[11] Z. S. Afin, "Desain dan Simulasi Filter Aktif Shunt Multilevel Inverter untuk Kompensasi Harmonisa Akibat Penggunaan Beban NonLinear," Serang, 2015. Accessed: Apr. 16, 2025. [Online]. Available: https://eprints.untirta.ac.id/11613/

[12] Inc. The Institute of Electrical and Electronics Engineers, "IEEE Std 159TM-2014, Recommended Practice and Requirements for Harmonic Control in Electric Power Systems," 2014.

[13] Kumar and Singh, *Grid-Connected Renewable Energy Systems: Integration and Challenges.* Academic Press, 2021.

[14] M. S. Akbar and F. H. Siddique, *Standalone Photovoltaic Power Systems: Design and Implementation.* Wiley, 2023.

[15] K. Su, *Book of analog filters (2nd ed.)*. Springer, 2002.

[16] W. George J, *Power Systems Harmonics: Fundamental, Analysis and Filter Design*, 3rd ed. Berlin: Springer, 2001.

[17] Turan Gonen, *Electric Power Distribution Engineering Third Edition*, 3rd ed. CRC Press, Taylor & Francis Group, 2014.

[18] "(neuron.eng.wayne.edu/ECE330/multisim_tutorial)."