

DAFTAR REFERENSI

- Abdulwahid, M. M. (2020). Design and Implementation of Motor Speed Control Model by using PLC. *Informatica : Journal of Applied Machines Electrical Electronics Computer Science and Communication Systems*, 01(01), 54–62. <https://doi.org/10.47812/ijamecs2010108>
- Aditya, T. (2013). Research to study Variable Frequency Drive and its Energy Savings. *International Journal of Science and Research*, 2(6), 2319–7064. www.ijsr.net
- Bharti, R., Kumar, M., & Prasad, B. M. (2019). V/F Control of Three Phase Induction Motor. *Proceedings - International Conference on Vision Towards Emerging Trends in Communication and Networking, ViTECoN 2019*, 1–4. <https://doi.org/10.1109/ViTECoN.2019.8899420>
- Cui, X., Li, B., Kou, Z., & Qiao, Y. (2019). Measurement and control system for variable-frequency speed regulating of motor based on PLC and HMI. *Proceedings of 2019 IEEE 8th Joint International Information Technology and Artificial Intelligence Conference, ITAIC 2019, Itaic*, 1169–1172. <https://doi.org/10.1109/ITAIC.2019.8785791>
- Dharkar, A., & Daigavane, D. P. M. (2017). Control of Variable Frequency Drives with PLC : A Review. *International Journal of Electrical Engineering & Technology*, 8(1), 45–51.
- Diab, A. A. Z., Kotin, D. A., & Pankratov, V. V. (2013). Speed control of sensorless induction motor drive based on model predictive control. *International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices, EDM*, 269–274. <https://doi.org/10.1109/EDM.2013.6641993>
- Dorjee, R. G. (2014). Monitoring and Control of a Variable Frequency Drive Using PLC and SCADA. *International Journal on Recent and Innovation Trends in Computing and Communication*, 2(10), 3092–3098.
- Electric, S. (2020). *User Manual Easy Harmony GXU*.

- FAKHRUDDIN, H. H., TOAR, H., PURWANTO, E., OKTAVIANTO, H., APRIYANTO, R. A. N., & ADITYA, A. W. (2020). Kendali Kecepatan Motor Induksi 3 Fase Berbasis Particle Swarm Optimization (PSO). *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, 8(3), 477. <https://doi.org/10.26760/elkomika.v8i3.477>
- Ghosh, G., Locham, K. K., Garg, R., & Sarwal, D. (2020). Implementation of VFD Application for Speed Control of Induction Motor. In *2020 International Conference on Smart Innovations in Design, Environment, Management, Planning and Computing (ICSIDEMPC)* (Vol. 39, Issue 12). IEEE. <https://doi.org/10.1109/ICSIDEMPC49020.2020.9299636>
- Hannan, M. A., Ali, J. A., Mohamed, A., & Hussain, A. (2018). Optimization techniques to enhance the performance of induction motor drives: A review. *Renewable and Sustainable Energy Reviews*, 81(September 2016), 1611–1626. <https://doi.org/10.1016/j.rser.2017.05.240>
- Hartono, H., Sudjoko, R. I., & Iswahyudi, P. (2019). Speed Control of Three Phase Induction Motor Using Universal Bridge and PID Controller. *Journal of Physics: Conference Series*, 1381(1). <https://doi.org/10.1088/1742-6596/1381/1/012053>
- Haryanto, H., & Hidayat, S. (2016). Perancangan HMI (Human Machine Interface) Untuk Pengendalian Kecepatan Motor DC. *Setrum : Sistem Kendali-Tenaga-Elektronika-Telekomunikasi-Komputer*, 1(2), 58. <https://doi.org/10.36055/setrum.v1i2.476>
- Hittanagi, K. N., Ramesh, M., Ravi Kumar, K. N., & Mahadeva, S. K. (2018). PLC based DC drive control using Modbus RTU communication for selected applications of sugar mill. *2nd International Conference on Circuits, Controls, and Communications, CCUBE 2017 - Proceedings*, 80–85. <https://doi.org/10.1109/CCUBE.2017.8394156>
- Howimanporn, S., Thanok, S., Chookaew, S., & Sootkaneung, W. (2017). Speed control technique for conveyor using PSO based PID with programmable logic controller. *SII 2016 - 2016 IEEE/SICE International Symposium on System*

Integration, 670–675. <https://doi.org/10.1109/SII.2016.7844076>

- Idoko, A. A., Thuku, I. T., Musa, S. Y., & Amos, C. (2017). Design of Tuning Mechanism of PID Controller for Application in three Phase Induction Motor Speed Control. *International Journal of Advanced Engineering Research and Science*, 4(11), 138–147. <https://doi.org/10.22161/ijaers.4.11.21>
- Khaled Kamel, P. D., & Eman Kamel, P. D. (2014). *Programmable Logic Controllers* (First Edit). McGraw-Hill Education.
- Khudier, K. H., Mohammed, K. G., & Ibrahim, M. S. (2021). Design and Implementation of Constant Speed control System for the Induction motors Using Programmable logic Controller (PLC) and Variable Frequency Drive (VFD). *IOP Conference Series: Materials Science and Engineering*, 1076(1), 012007. <https://doi.org/10.1088/1757-899x/1076/1/012007>
- Kim, S. (2017). Electric Motor Control DC, AC, and BLDC Motors. In J. Hayton & E. Payne (Eds.), *Electric Motor Control*. Joe Hayton. <https://doi.org/10.1016/b978-0-12-812138-2.00011-8>
- Liu, H., & Gao, D. (2018). A novel flux oriented V/f control method of induction motor based industrial adjustable speed drives. *Proceedings of the 13th IEEE Conference on Industrial Electronics and Applications, ICIEA 2018*, 2, 1739–1744. <https://doi.org/10.1109/ICIEA.2018.8397990>
- Maghfiroh, H., Saputro, J. S., Adriyanto, F., Sujono, A., & Lambang, R. L. (2021). Performance Evaluation of Fuzzy-PID in Speed Control of Three Phase Induction Motor. *IOP Conference Series: Materials Science and Engineering*, 1096(1), 012071. <https://doi.org/10.1088/1757-899x/1096/1/012071>
- Maheswari, K. T., Bharani Kumar, R., Lavanya, D., & Boopathimanikandan, S. (2020). Design of SVPWM based Closed-Loop Control of Voltage Source Inverter Fed Induction Motor Drive with PID Controller. *Proceedings of the 4th International Conference on Inventive Systems and Control, ICISC 2020*, *Icisc*, 487–492. <https://doi.org/10.1109/ICISC47916.2020.9171181>
- Mahfoud, S., Derouich, A., Ouanjli, N. E. L., Mahfoud, M. E. L., & Taoussi, M.

(2021). A new strategy-based pid controller optimized by genetic algorithm for dtc of the doubly fed induction motor. *Systems*, 9(2). <https://doi.org/10.3390/systems9020037>

Muhammad H. Rashid, N. K. A. R. K. (2014). *Power Electronics : Devices, Circuits and Applications* (Marcia J. Horton (ed.); Fourth Edi). Pearson Education, Inc.

Niazi, M. A., Hayat, Q., Khan, B., & Afaq, M. (2021). Speed Control of Three Phase Induction Motor using Variable Frequency Drive Control System. *International Journal of Current Engineering and Technology*, 10(01), 5–10. <https://doi.org/10.14741/ijcet/v.10.1.2>

Nise, N. S. (2015). Control Systems Engineering. In D. Sayre, E. Blomster, & W. Ashenberg (Eds.), *California State Polytechnic University, Pomona* (Seventh Ed, Vol. 7). WILEY. <https://doi.org/10.1002/mawe.200390155>

Ogata, K. (2010). Modern Control Engineering (5th Edition). In M. J. Horton, A. Gilfillan, A. Dworkin, W. Opaluch, G. Dulles, & D. Sandin (Eds.), *Pretince Hall* (5th Editio, Vol. 5). Pearson Education, Inc.

Patel, J. J., Kuvabat, A. M., & Jhala, M. B. (2014). Speed Control of a Three Phase Induction Motor Using PWM Inverter. *International Journal of Engineering Development and Research*, 2(1), 503–507.

Peña-gonzalez, I., Sanchez-ruiz, A., Martinez-ramos, I., Rebollo, I., Arza, J., Catalán, P., & Tecnológico, P. (2019). Scalar / Vector Sensorless Control Combination Solution for Induction Motor Drives at Whole Speed Range Operation Keywords Sensorless Algorithm based on Adaptive Flux Observer. *2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe)*, 1–10.

Petruzella, F. D. (2016). Electric Motors and Control Systems. In *Engineering (London)* (Second Edi, Vol. 225, Issues 7–8). McGraw-Hill Education.

Petruzella, F. D. (2017). Programmable Logic Controllers. In *Mc-Graw Hill Education* (Fifth Edit, Vol. 5). McGraw-Hill Education.

- Priyatna, R., Andang, A., & Nursuwars, F. M. S. (2021). Wireless Communication on PLC Using Access Point TP-Link TL-WN722N. *Journal of Electrical Technology UMY*, 5(1), 40–44. <https://doi.org/10.18196/jet.v5i1.12260>
- Randis, R., Akbar, S., & Darmawan, R. (2019). Implementasi Sistem Safety Device Engine Oil Level Pc 200-7 Berbasis Arduino. *Media Mesin: Majalah Teknik Mesin*, 19(2), 90–98. <https://doi.org/10.23917/mesin.v19i2.7508>
- Saad, N., & Arrofiq, M. (2012). A PLC-based modified-fuzzy controller for PWM-driven induction motor drive with constant V/Hz ratio control. *Robotics and Computer-Integrated Manufacturing*, 28(2), 95–112. <https://doi.org/10.1016/j.rcim.2011.07.001>
- Sequeira, M., & Alahakoon, S. (2019). Energy efficient variable speed drives empowered with torque estimation. *Energy Procedia*, 160(2018), 194–201. <https://doi.org/10.1016/j.egypro.2019.02.136>
- Setiawan, I. (2008). *Kontrol PID untuk Proses Industri*. PT. Elex Media Komputindo.
- Shaija, P. J., & Daniel, A. E. (2016). An Intelligent Speed Controller Design for Indirect Vector Controlled Induction Motor Drive System. *Procedia Technology*, 25(Raerest), 801–807. <https://doi.org/10.1016/j.protcy.2016.08.177>
- Shintawaty, L. (2013). Peranan Daya Reaktif Pada Sistem Kelistrikan. *Jurnal Desiminasi Teknologi*, 1(2), 109–128.
- Zhang, R., & Gao, L. (2021). Research on motor control and simulation based on PID and Internet of Things system. *Microprocessors and Microsystems*, 80(November 2020), 103602. <https://doi.org/10.1016/j.micpro.2020.103602>