



## DAFTAR PUSTAKA

- [1] Y. Shi, “Field oriented control of permanent magnet synchronous motor with third-harmonic injection pulse width modulation to reduce quadrotor’s speed ripples,” *New Jersey Institute of Technology Theses*, 2017. [Online]. Available: <https://digitalcommons.njit.edu/cgi/viewcontent.cgi?article=1027&context=theses>
- [2] G. Wang, Y. Yu, G. Zhang, B. Wang, M. Yang, and D. Xu, “Chapter 12 - sensorless control of motor drives,” in *Control of Power Electronic Converters and Systems*, F. Blaabjerg, Ed. Academic Press, 2018, pp. 331–369. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/B9780128052457000123>
- [3] L. Aguilar, R. Ramirez-Villalobos, A. Ferreira de Loza, and L. Coria, “Robust sensorless speed tracking controller for surface-mount permanent magnet synchronous motors subjected to uncertain load variations,” *International Journal of Systems Science*, vol. 51, pp. 1–14, 11 2019.
- [4] M. Abassi, A. Khlaief, O. Saadaoui, A. Chaari, and M. Boussak, “Performance analysis of foc and dtc for pmsm drives using svpwm technique,” in *2015 16th International Conference on Sciences and Techniques of Automatic Control and Computer Engineering (STA)*, 2015, pp. 228–233.
- [5] S. Masoumi Kazraji, R. Soflayi, and M. B. Bannae Sharifian, “Sliding-mode observer for speed and position sensorless control of linear-pmsm,” *Electrical, Control and Communication Engineering*, vol. 5, 05 2014.
- [6] M. Comanescu, “Speed, emf and rotor position estimation of pmsm using phase locked loop and simple sliding mode observer,” in *IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society*, 2021, pp. 1–6.
- [7] C. Olivieri, F. Parasiliti, and M. Tursini, “A full-sensorless permanent magnet synchronous motor drive with an enhanced phase-locked loop scheme,” 09 2012, pp. 2202–2208.
- [8] K.-B. Lee, H.-U. Shin, and Y. Bak, “Chapter 11 - basic control of ac motor drives,” in *Control of Power Electronic Converters and Systems*, F. Blaabjerg, Ed. Academic Press, 2018, pp. 301–329. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/B9780128052457000111>
- [9] D. Schnaufer, D. Briggs, M. Sousa, and J. Quinones, “Motor control fundamentals for dummies,” E. Kuball, Ed. John Wiley & Sons, Inc., 2020, p. 8.
- [10] H. O. Erkol, “Optimized field oriented control design by multi objective optimization,” *International Journal of Advanced Computer Science and Applications*, vol. 10, 01 2019.
- [11] H. An, “Motor story 007 - ipmsm (busted permanent magnet synchronous motor),” Jun 2019. [Online]. Available: <https://blog.naver.com/ahnoz2/221558885175>
- [12] M. Caruso, A. Di Tommaso, R. Miceli, C. Nevoloso, C. Spataro, and F. Viola, “Enhanced loss model algorithm for interior permanent magnet synchronous machines,” 09 2017, pp. 1–6.



- [13] E. Kandemir Beşer, “Electrical equivalent circuit for modelling permanent magnet synchronous motors,” *Journal of Electrical Engineering*, vol. 72, pp. 176–183, 06 2021.
- [14] A. K. T. Elhangari, “Sliding-mode control of the permanent magnet synchronous motor (pmsm),” Ph.D. dissertation, 2013. [Online]. Available: [http://rave.ohiolink.edu/etdc/view?acc\\_num=dayton1386173503](http://rave.ohiolink.edu/etdc/view?acc_num=dayton1386173503)
- [15] M. Vidlak, P. Makys, and L. Gorel, “A novel constant power factor loop for stable v/f control of pmsm in comparison against sensorless foc with luenberger-type back-emf observer verified by experiments,” *Applied Sciences*, vol. 12, no. 18, 2022. [Online]. Available: <https://www.mdpi.com/2076-3417/12/18/9179>
- [16] *Sensorless field-oriented control (FOC) using PSoC™ 6 MCU*, Infineon Technologies AG, 2022.
- [17] L. QINGHUA, “Analysis, design and control of permanent magnet synchronous motors for wide-speed operation,” *National University of Singapore Ph.D Theses*, p. 230, 2005. [Online]. Available: <https://scholarbank.nus.edu.sg/handle/10635/15011>
- [18] S. K. Asuri, “Modelling and control of sparse converter fed induction motor drives,” *Tennessee Tech University Theses*, p. 198. [Online]. Available: <https://www.tntech.edu/engineering/research/cesr/pages/ojo/documents.php>
- [19] S. N. Manias, “6 - inverters (dc–ac converters),” in *Power Electronics and Motor Drive Systems*, S. N. Manias, Ed. Academic Press, 2017, pp. 271–500.
- [20] N. Mohan, T. Undeland, and W. Robbins, *Power Electronics: Converters, Applications, and Design*, ser. Power Electronics: Converters, Applications, and Design. Wiley, 2003, no. v. 1.
- [21] S. Devadoss, R. Palanisamy, S. Kuppusamy, V. Kalyanasundaram, K. Dhandapani, A. Nair, K. Karnavat, and A. Sharma, “Simulation of zeta converter based 3-level npc inverter with pv system,” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 12, pp. 1–6, 10 2018.
- [22] M. Maung, M. Latt, and C. Nwe, “Dc motor angular position control using pid controller with friction compensation,” *International Journal of Scientific and Research Publications (IJSRP)*, vol. 8, 11 2018.
- [23] M. Valtonen, A. Parviainen, and J. Pyrhonen, “Inverter switching frequency effects on the rotor losses of an axial-flux solid-rotor core induction motor,” in *2007 International Conference on Power Engineering, Energy and Electrical Drives*, 2007, pp. 476–480.
- [24] R. M. Pindoriya, A. K. Mishra, B. S. Rajpurohit, and R. Kumar, “Performance analysis of control strategies of permanent magnet synchronous motor,” in *2016 IEEE Region 10 Conference (TENCON)*, 2016, pp. 3224–3227.
- [25] R. T. Ramamoorthy, B. Larimore, and M. Bhardwaj, *Sensored Field Oriented Control of 3-Phase Permanent Magnet Synchronous Motors Using TMS320F2837x*, 2021. [Online]. Available: [www.ti.com](http://www.ti.com)



[26] [Online]. Available: <https://www.mathworks.com/help/sps/ug/power-motordrive-IM-FOC.html>

- [27] B. M. Temesi and U. G. Gautadottir, “Sensorless control of pmsm drive using sliding-mode-observers,” *Aalborg University Master Thesis*, p. 118, 2020. [Online]. Available: <http://www.aau.dk>
- [28] Z. Guangzhen, Z. Feng, W. Yongxing, W. Xuhui, and C. Wei, “Analysis and optimization of current regulator time delay in permanent magnet synchronous motor drive system,” in *2013 International Conference on Electrical Machines and Systems (ICEMS)*, no. 5, 2013, pp. 2286–2290.
- [29] B. Bahrani, S. Kenzelmann, and A. Rufer, “Multivariable-pi-based  $dq$  current control of voltage source converters with superior axis decoupling capability,” *IEEE Transactions on Industrial Electronics*, vol. 58, no. 7, pp. 3016–3026, 2011.
- [30] *Boost Converter Demo Model*, Plexim GmbH, 2023. [Online]. Available: <http://www.plexim.com>
- [31] R. De Doncker, D. Pulle, and A. Veltman, *Advanced Electrical Drives: Analysis, Modeling, Control*, ser. Power Systems. Springer Netherlands, 2010.
- [32] D. Daniel, *PMSM Control Workshop (Module 9 : Position Observer)*, 2017. [Online]. Available: <https://community.nxp.com/t5/Model-Based-Design-Toolbox-MBDT/Module-9-Position-Observer-Part-1-2/m-p/747798>
- [33] Z. Wang, K. Lu, and F. Blaabjerg, “A simple startup strategy based on current regulation for back-emf-based sensorless control of pmsm,” *IEEE Transactions on Power Electronics*, vol. 27, no. 8, pp. 3817–3825, 2012.
- [34] X. Liu, Z. Wang, W. Wang, Y. Lv, B. Yuan, S. Wang, W. Li, Q. Li, Q. Zhang, and Q. Chen, “Smo-based sensorless control of a permanent magnet synchronous motor,” *Frontiers in Energy Research*, vol. 10, 2022.
- [35] S. Strobl, “Sensorless motor control using a back-emf sliding-mode observer,” Imperix, Tech. Rep. TN136, December 2022. [Online]. Available: <https://imperix.com/doc/implementation/sensorless-motor-control>
- [36] Y. Xu, M. Wang, W. Zhang, and J. Zou, “Sliding mode observer for sensorless control of surface permanent magnet synchronous motor equipped with lc filter,” *IET Power Electronics*, vol. 12, no. 4, pp. 686–692, 2019.
- [37] “Sensorless pmsm vector control with a sliding mode observer for compressors using mc56f8013 devices supported: Mc56f8013 mc56f8023,” 2008. [Online]. Available: [www.freescale.com](http://www.freescale.com)
- [38] Plecs: The simulation platform for power electronic systems. [Online]. Available: <https://www.plexim.com/>
- [39] *Permanent Magnet Synchronous Motor Control High-performance and power-efficient motor control*, NXP Semiconductors, 2012.