

REFERENCES

- [1] P. Vernekar, Z. Wang, A. Serrani, K. Passino, "Feedback Control Methods for a Single Machine Infinite Bus System," 2020. [Online]. Available: arxiv:2009.05689v1
- [2] J. Gao, B. Chaudhuri and A. Astolfi, "Lyapunov-based Transient Stability Analysis," 2022 IEEE 61st Conference on Decision and Control (CDC), Cancun, Mexico, 2022, pp. 5099-5104, doi: 10.1109/CDC51059.2022.9992811.
- [3] Ryoya Kubo, Yasuhiro Fujii, Hisakazu Nakamura, Control Lyapunov Function Design for Trajectory Tracking Problems of Wheeled Mobile Robot, IFAC-PapersOnLine, Volume 53, Issue 2, 2020, Pages 6177-6182, ISSN 2405-8963, <https://doi.org/10.1016/j.ifacol.2020.12.1704>.
- [4] I. A. Hiskens and R. J. Davy, "Lyapunov Function Analysis of Power Systems with Dynamic Loads," in Proceedings of the 35th Conference on Decision and Control, Dec. 1996
- [5] A. K. Singh and B. C. Pal, "Decentralized Nonlinear Control for Power Systems using Normal Forms and Detailed Models," 2018 IEEE Power & Energy Society General Meeting (PESGM), Portland, OR, USA, 2018, pp. 1-1, doi: 10.1109/PESGM.2018.8586415.
- [6] P. Kundur, "Power System Stability and Control", New York: McGraw Hill, 1994
- [7] R. Ortega, M. Galaz, A. Astolfi, Yuanzhang Sun and T. Shen, "Transient stabilization of multimachine power systems with nontrivial transfer conductances," in IEEE Transactions on Automatic Control, vol. 50, no. 1, pp. 60-75, Jan. 2005, doi: 10.1109/TAC.2004.840477.
- [8] Shihong Ding, Wei Xing Zheng, Controller design for nonlinear affine systems by control Lyapunov functions, Systems & Control Letters, Volume 62, Issue 10, 2013, Pages 930-936, ISSN 0167-6911, <https://doi.org/10.1016/j.sysconle.2013.07.001>.
- [9] H. K. Khalil, Nonlinear systems; 3rd ed. Upper Saddle River, NJ: Prentice-Hall, 2002.
- [10] Wei Lin, Feedback Stabilization of General Nonlinear Control Systems, IFAC Proceedings Volumes, Volume 28, Issue 14, 1995, Pages 403-408, ISSN 1474-6670, [https://doi.org/10.1016/S1474-6670\(17\)46863-7](https://doi.org/10.1016/S1474-6670(17)46863-7).
- [11] S.J. Thrun, W. Burgard, D. Fox, "Probabilistic Robotics", MIT Press, Aug. 2005
- [12] E. D. Sontag, Mathematical control theory: deterministic finite dimensional systems, 2nd ed., vol. Texts in applied mathematics. New York: Springer, 1998.

- [13] A. Sakai, D. Ingram, J. Dinius, K. Chawla, A. Raffin, and A. Paques, "PythonRobotics: a Python code collection of robotics algorithms", CoRR, vol. abs/1808.10703, 2018.
- [14] H. K. Khalil, Nonlinear Control. Pearson, 2015.
- [15] M. Brezovac, I. Kuzle, M. Krpan, "Detailed mathematical and simulation model of a synchronous generator", Journal of Energy, vol. 64 (2015) Special Issue, p. 102-129
- [16] V. Wüest, V. Kumar, and G. Loianno, "Online estimation of geometric and inertia parameters for multirotor aerial vehicles", Proceedings IEEE International Conference on Robotics and Automation, vol. 2019 May, pp. 1884-1890, 2019.
- [17] "Clarke Transformation", mathworks.com. <https://www.mathworks.com/help/sps/ref/clarketransform.html> (accessed Jan. 25, 2023)
- [18] "Clarke to Park Angle Transform", mathworks.com. <https://www.mathworks.com/help/sps/ref/clarketoparkangletransform.html> (accessed Jan. 25, 2023)
- [19] C. S. Yuan, X. S. Zhou and Y. J. Ma, "Constructive Analysis of Self-inductance Time-varying Self-inductance Coefficient of Stator Winding Synchronous Generator", 2019 Chinese Control Conference (CCC), Guangzhou, China, 2019, pp. 876-879
- [20] C. J. O'Rourke, M. M. Qasim, M. R. Overlin, J. L. Kirtley, "A Geometric Interpretation of Reference Frames and Transformations: dq0, Clarke, and Park", IEEE Transactions on Energy Conversion 34, 4 December 2019
- [21] A. R. Bergen, V. Vittal, "Power System Analysis". Prentice Hall, 2000.
- [22] J. Glover, M. Sarma, and T. Overbye, Power Systems Analysis and Design. Stamford, CT, USA: Thomson, 2008.
- [23] Zhijun Li, Yu Yang and Xiujuan Bao, "Simulation and analysis of the third-order model of synchronous generator based on MFC", 2009 International Conference on Mechatronics and Automation, Changchun, 2009, pp. 4252-4256, doi: 10.1109/ICMA.2009.5246515.
- [24] T. Weckesser, H. Johansson, J. Ostergaard, "Impact of model detail of synchronous machines on real-time transient stability assessment", 2013 IREP Symposium-Bulk Power System Dynamics and Control (IREP), Rethymnon, Greece, 2013, pp. 1-9
- [25] Y. Wang, L. Xie, D. J. Hill and R. H. Middleton, "Robust nonlinear controller design for transient stability enhancement of power systems," [1992] Proceedings of the 31st IEEE Conference on Decision and Control, Tucson, AZ, USA, 1992, pp. 1117-1122 vol.1, doi: 10.1109/CDC.1992.371542.