

BIBLIOGRAPHY

- [1] F. M. Bayat, "An Iterative LMI Approach for H_∞ Synthesis of Multivariable PI/PD Controllers for Stable and Unstable Processes," *Chemical Engineering Research and Design*, vol. 132, no. 2018, pp. 606-615, 2018.
- [2] S. Boyd, M. Hast and K. J. Astrom, "MIMO PID tuning via iterated LMI restriction," *Int. J. Robust Nonlinear Control*, vol. 26, no. 2016, pp. 1718-1731, 2016.
- [3] Y. Y. Cao, J. Lam and Y. X. Sun, "Static Output Feedback Stabilization: An ILMI Approach," *Automatica*, vol. 34, no. 12, pp. 1641-1645, 1998.
- [4] K. Zhou, J. C. Doyle and K. Glover, *Robust and Optimal Control*, New Jersey: Prentice Hall, 1996.
- [5] D. E. Seborg, T. F. Edgar and D. A. Mellichamp, *Process Dynamics and Control*, 2nd ed., New Jersey: Wiley, 2003.
- [6] P. Gahinet and P. Apkarian, "A linear matrix inequality approach to H-infinity control," *Int. J. Robust Nonlinear Control*, vol. 4, no. 5, pp. 421-448, 1994.
- [7] S. Skogestad and I. Postlethwaite, *Multivariable Feedback Control*, 2nd ed., New York: Wiley, 1996.
- [8] G. Gu, "On the existence of linear optimal control with output feedback," *SIAM J. Contr. Optim.*, vol. 28, no. 3, pp. 711-719, 1990.
- [9] T. Iwasaki and R. E. Skelton, "Parametrization of all stabilizing controllers via quadratic Lyapunov functions," *J.Optim. Theory Appl.*, vol. 85, pp. 291-307, 1995.
- [10] T. Iwasaki, R. E. Skelton and J. C. Geromel, "Linear quadratic suboptimal control with static output feedback," *Systems Control Lett.*, vol. 18, pp. 421-430, 1994.
- [11] M. C. Oliveira and J. C. Geromel, "Numerical comparison of output feedback design methods," in *Proc. of America Control Conf*, Albuquerque, U.S.A, 1997.

- [12] D. Teschl, "Dynamical Systems," in *Ordinary Differential Equations and Dynamical Systems*, Rhode Island, American Mathematical Society, 2012, pp. 198-203.
- [13] M. C. Razali, N. A. Wahab, P. Balaguer, M. F. Rahmat and S. I. Samsudin, "Multivariable PID controllers for dynamic process," in *2013 9th Asian Control Conference (ASCC)*, Istanbul, Turkey, 2013.
- [14] J. Hu, C. Bohn and H. R. Wu, "Systematic H-infinity weighting function selection and its application to the real-time control of a vertical take-off aircraft," *Control Engineering Practice*, vol. 8, pp. 241-252, 2000.
- [15] K. J. Astrom, K. H. Johansson and Q. G. Wang, "Design of Decoupled PID Controllers for MIMO Systems," in *American Control Conference*, Arlington, 2001.
- [16] R. Kalpana, H. Kandath, J. Senthilkumar, G. Balasubramanian and S. G. Abhay , "PrePrints," 25.12.2017. [Online]. Available: <https://www.preprints.org/manuscript/201712.0184/v1>. [Accessed 27 12 2018].
- [17] Thales Electron Devices, "Industrial High-Power Tetrode," TH558E datasheet, Dec. 2012 .
- [18] "SLBC," [Online]. Available: <http://www.slbc.lk/>.
- [19] Dunkermotoron Corporation, "Permanent Magnet DC Motor," GR 53×58 datasheet, Oct. 2012.
- [20] "THALES Group ,," [Online]. Available: <https://www.thalesgroup.com/en/global/activities/market-specific-solutions/microwave-imaging-sub-systems/radio-frequency-microwav-0>.
- [21] "Ampegon Corporation ,," [Online]. Available: <https://ampegon.com/products/sw-tube-transmitter/>.
- [22] Thales Electron Devices, "Industrial High- μ Triode," CTK 12-1 datasheet, Dec. 2012 .
- [23] "L34A: The Bounded Real Lemma," Control System Synthesis, 1 March 2017. [Online]. Available: <https://www.youtube.com/watch?v=EsykpnnpPhM>. [Accessed 12 10 2018].

- [24] "Mosek LMI Solver," [Online]. Available: <https://www.mosek.com/products/mosek/>. [Accessed 12 10 2018].
- [25] MicroChip Corporation, "8-bit Microcontroller with 4/8/16/32K Bytes In-System Programmable Flash," ATmega328P datasheet, Feb. 2009.
- [26] Omron Electronics Components, "PCB Power Relay," G2R-2 datasheet, Jan. 2019 .
- [27] B. C. Kuo, Digital Control Systems, 2nd ed., New York: Oxford University Press Inc, 2007.
- [28] M. C. Razali, N. A. Wahab, P. Balaguer, M. F. Rahmat and S. I. Samsudin, "Multivariable PID controllers for dynamic process," in *2013 9th Asian Control Conference (ASCC)*, Istanbul, Turkey, 2013.
- [29] "APMonitor Regression Solver," [Online]. Available: <https://www.apmonitor.com/wiki/index.php/Main/MATLAB>. [Accessed 12 10 2018].