References

B.D.O. Anderson and J.B. Moore. *Linear Optimal Control*. Prentice Hall, Englewood Cliffs, New Jersey, 1971.

B.D.O. Anderson and J.B. Moore. *Optimal Filtering*. Prentice Hall, Englewood Cliffs, New Jersey, 1979.

B.D.O. Anderson and J.B. Moore. *Optimal Control. Linear Quadratic Methods*. Prentice Hall, Englewood Cliffs, New Jersey, 1989.

M Athans. The role and use of stochastic linear quadratic gaussian problem in control system design. *IEEE Trans. Automatic Control*, 16:529–552, 1971.

M. Athans and P.L. Falb. *Optimal control*. McGraw-Hill Book Company, New York, 1966.

G. Balas, J.C. Doyle, K. Glover, A. Packard, and R. Smith. *μ-analysis and synthesis toolbox*. The Mathworks Inc., 1993.

G. Basile, and G. Marro. *Controlled and Conditioned Invariants in Linear System Theory*. Prentice Hall, 1992.

R. Bellman. *The structure of dynamic programming processes*. Princeton University Press, 1957.

S. Boyd, L. El Ghaoui, E. Feron, and V. Balakrishnan. *Linear Matrix Inequalities in System and Control Theory*. Vol. 15 of Studies in Applied Mathematics, SIAM, 1994.

S. Boyd and L. Vandenberghe. *Convex Optimization*. Cambridge University Press, 2004.

J.B. Burl. *Linear Optimal Control. H_2 and H_∞ methods*. McGraw-Hill International Editions, 1998.

M.A. Dahleh and I. Diaz-Bobillo. *Control of Uncertain Systems: A Linear Programming Approach*. Prentice-Hall, 1995.

R.C. Dorf and R.H. Bishop. *Modern Control Systems*. Addison-Wesley Publ. Comp.Inc., 1984.

J. Doyle, B. Francis, and A. Tannenbaum. *Feedback Control Theory*. Macmillan Publishing Co., 1990.

J.C. Doyle. Analysis of feedback systems with structured uncertainties. *IEE Proc.*, 129(6):242–252, 1982.

J.C. Doyle and G. Stein. Multivariable feedback design: Concepts for a classical/modern synthesis. *IEEE Transactions on Automatic Control*, 26 (1):4–16, 1981.

G.E. Dullerud and F. Paganini. *A Course in Robust Control Theory: A Convex Approach*. Springer-Verlag, New York, NY, 2000.

P.L. Duren. *Theory of $\mathcal{H}_p$ spaces*. Academic Press, 1970.

G. Franklin and J.D. Powell. *Digital Control of Dynamic Systems*. Addison-Wesley, New York, 1980.

J.S. Freudenberg and D.P. Looze. *Frequency Domain Properties of Scalar and Multivariable Feedback Systems*. Springer-Verlag, 1988.

J.B. Garnett. *TBounded Analytic Functions*. Academic Press, 1981.

P. Gáspár, I. Szászi, and J. Bokor. Design of robust controllers for active vehicle suspension using the mixed μ synthesis. *Vehicle System Dynamics*, 40(4):193–228, 2003.

T.D. Gillespie. *Fundamentals of Vehicle Dynamics*. Society of Automotive Engineers, Inc., 1992.

M.J. Green and D.J.N. Limebeer. *Linear Robust Control*. Prentice Hall, Englewood Cliffs, New Jersey, 1995.

P. R. Halmos. *Introduction to Hilbert Space*. Chelsea Pub Co, 1987.

A. Hac. Adaptive control of vehicle suspension. *Vehicle System Dynamics*, 16:57–74, 1987.

J. P. Hespanha. *Linear Systems Theory*. Princeton University Press, 2009.

T. Kailath. *Linear systems*. Prentice-Hall, Inc., Englewood Cliffs, 1980.

R. Kalman. On the general theory of control systems. *Proc. 1st IFAC Congress, Moscow*, 1:481–492, 1960.

R.E. Kalman, P.L. Falb and M.A. Arbib. *Topics in Mathematical System Theory*. McGraw-Hill. New York, 1969.

L. Keviczky, R. Bars, J. Hetthéssy, A. Barta, Cs. Bányász. *Control Engineering*. Széchenyi University Press, Györ, 2011.

U. Kiencke and L. Nielsen. *Automotive control systems. For engine, driveline and vehicle*. Springer, 2000.

E. Kreyszig. *Introductory Functional Analysis with Applications*. John Wiley & Sons, 1989.

Maciejowski. *Multivariable Feedback Design*. Addison-Wesley, 1989.

D. C. McFarlane and K. Glover. *Robust Controller Design Using Normalized Coprime Factor Plant Descriptions*. Springer-Verlag, Berlin, 1990.

A. Megretski, and A. Rantzer. System Analysis via Integral Quadratic Constraints. *IEEE Transactions on Automatic Control*, 42(6):819 – 830, 1997.

H.E. Merritt. Hydraulic control systems. *Wiley and Sons*, 1967.

N.S. Nise. *Control Systems Engineering*. The Benjamin Cummings Publ. Comp., Inc., 1995.

H. B. Pacejka. *Tyre and vehicle dynamics*. Elsevier Butterworth-Heinemann, Oxford, 2004.

A. Pilat. Analytical modeling of active magnetic bearing geometry. *Applied Mathematical Modelling*, pages 3805–3816, 2009.

L.S. Pontryagin. Optimal regulation process. *American Math Society Translations*, 18:321–339, 1961.

R. Rajamani. *Vehicle Dynamics and Control*. Springer, 2006.

J. Reimpell, H. Soll, and J.W. Betzler. *The Automotive Chassis: Engineering Principles*. Butterworth Heinemann, 2001.

M. Rosenblum and J. Rovnyak. *Hardy Classes and Operator Theory*. Oxford University Press, 1985.

W. Rudin. *Real and Complex Analysis*. McGraw-Hill Int. Ed., third edition, 1987.

M.G. Safonov. *Stability and Robustness of Multivariable Feedback Systems*. MIT Press, Cambridge, MA, 1980.

M. Safonov, A. Laub, and G. Hartmann. Feedback properties of multivariable systems: The role and use of the return difference matrix. *IEEE Transactions on Automatic Control*, 26(1):47 – 65, 1981.

C. Scherer, P. Gahinet, and M. Chilali. Multiobjective output-feedback control via LMI optimization. *IEEE Transactions on Automatic Control*, 42(7):896 – 911, 1997.

C. Scherer and S. Weiland. *Linear Matrix Inequalities in Control*. Lecture notes DISC, 2005.

E.D. Sontag. *Mathematical Control Theory: Deterministic Finite Dimensional Systems*. Second Edition, Springer, New York, 1998.

G. Stein and M. Athans. The LQG/LTR procedure for multivariable feedback control design. *IEEE Transactions on Automatic Control*, 32(2):105–114, 1987.

T. Vámos and J. Bokor. Bird's eye view on control theory - motion, spaces, transformations. *Annual Reviews in Control*, 21:1–11, 1997.

M. Vidyasagar. *Control Systems Synthesis: A Factorization Approach*. MIT Press, Cambridge, MA., 1985.

J. Willems. Least squares stationary optimal control and the algebraic Riccati equation. *IEEE Transactions on Automatic Control*, 16(6):621–634, 1971.

M. Wonham. *Linear multivariable control: a geometric approach*. Springer Verlag, 1985.

G. Zames. Feedback and optimal sensitivity: Model reference transformations, multiplicative seminorms, and approximate inverses. *IEEE Transactions on Automatic Control*, 26(2):301–320, 1981.

G. Zames and B.A. Francis. Feedback, min-max sensitivity, and optimal robustness. *IEEE Transactions on Automatic Control*, 28(5):585–601, 1983.

K. Zhou and J.C. Doyle. *Essentials of Robust Control*. Prentice Hall, Englewood Cliffs, New Jersey, 1998.

K. Zhou, J.C. Doyle, and K. Glover. *Robust and Optimal Control*. Prentice Hall, Englewood Cliffs, New Jersey, 1996.