

University of Massachusetts Lowell
Department of Electrical and Computer Engineering
16.509 Linear Systems

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Recommended texts:

1. Linear systems: Time domain and Transform Analysis, M.F. O'Flynn and G.M. Moriarity, Wiley
2. Modern Control Theory, W.L. Brogan, Prentice-Hall (1991), shop.barnesandnoble.com
3. Linear Systems Properties: Quick Reference, V. Krishnan, CRC Press, (1998)

Outline

Transform Analysis

1. Bilateral Laplace Transforms; OF Chapter 5
2. Z-Transforms; OF Chapter 7
3. Fourier Series and Transforms; OF Chapter 8
4. Discrete Time Fouries Transforms; OF Chapter 9
5. Fast Fourier Transform; OF Chapter 6

System Analysis

1. Vectors and Matrices: B Chapter 4.1-5
2. State-variable Representation; B Chapter 3.1-6
3. Time Response of Linear Systems; B Chapter 7.1-5