

# Reading List

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## **MAT357**

- Charles C.Pugh Real Mathematical Analysis Springer 2015
  1. Chapter 1
  2. Chapter 2.1 – 7, 2.10
  3. Chapter 3.1 – 4

## **APM462**

- David G. Luenberger, Yinyu Ye auth. Linear and Nonlinear Programming
  1. Chapter 2.1 – 2.5
  2. Chapter 3
  3. Appendix A,B and D

## **APM346**

- Lecture Notes
  1. Background Knowledge
  2. Chapter 1 – 3
- Roger Knobel, An Introduction to the Mathematical Theory of Waves
  1. Chapters 15 – 22
- H.M.Schey; Div, Grad,Curl and All That
  1. Chapter 1 – 2
- **Others:**
  1. Stanley J. Farlow, Partial Differential Equations for Scientists and Engineers
  2. Haberman Richard, Applied Partial Differential Equations with Fourier Series and Boundary Value Problems
  3. Walter A Strauss, Partial differential equations an introduction

## **STA457**

- Robert H. Shumway, David S. Stoffer auth. Time Series Analysis and Its Applications With R Examples

1. Chapters 1 – 2
2. Chapters 4.1 – 2

#### **STA414**

- Bishop - Pattern Recognition and Machine Learning
  1. 3.3 -3.5
- David J. C. MacKay Information Theory, Inference and Learning Algorithms
  1. Chapters 2 – 3
- Kevin P. Murphy Machine Learning A Probabilistic Perspective
  1. Chapter 2 – 5, 7.6, 14.7.4
- Trevor Hastie et al. The elements of statistical learning - Data mining, inference, and prediction
  1. Chapter 6 – 8