Material Covered for Midterm I

Text Sections 1.1

Text Sections 2.1,2.2,2.3,2.4;
(also several matching problems involving impedance or admittance formulation using Smith Chart)

Text Sections 3.5,3.7,3.8,3.11 (the Coaxial Line,the Strip Line,the Microstripline and the Slot Line)

Text Section 4.3 (the Scattering Matrix p.174, Reciprocal Networks and Lossless Networks p.177,Generalized S-parameters pp.181/182)

Text Section 4.5 and handout Notes for Chapter 4(Signal Flow Graphs, The Mason's Formula for solving 2-,3- and 4-port Circuits)

Material covered after Midterm I [for Midterm II]

Section 12.1 (Section 11.1 for 3 rd. Edition) (Two port power gains); also pages for amplifier gain of Chapter 4 Notes

Section 4.4 ABCD Matrix

Section 5.1 Matching with Lumped Elements_ Inverted L Networks [Examples from Chapter 5 Notes]

Chapter 7 Section 7.1 (Three port networks; four port networks; directional couplers; symmetric coupler; antisymmetric coupler)

Section 7.2 The T-junction Power Divider

Section 7.5 The Quadrature (90 degree hybrid) -- Branch line coupler

Section 7.8 The 180 degree hybrid--Ring Hybrid

Section 7.6 Coupled Line Directional Couplers

Chapter 8 Section 8.2 Filter design by image parameter method (Design of low pass constant- k and m-derived filters)
Design of composite filters
