

Topics	Homework Assignment	Test	HW Due Date
Distortion, wave propagation, filtering, transmission loss/gain	3.2-1,2*,5 3.3-2,5,7,10,14		
Hilbert transform, bandpass signals, modulation, bandwidth	4.1-4,13,14,15,17,18		
AM, DSB, SSB, VSB	4.2-2,3,4,6*,9,10		
Frequency Conversion, demodulation, modulation devices	4.3-1,4,5,6*,7	2/8/12	2/10/12
Receivers, superheterodyne, direct conversion, receiver specifications	4.4-2,7,10 4.5-2,3*,4,5,10,11		
Multiplexing systems, phase-locked loops	7.1-1,5,8,14,17*,22,24,25		
	7.2-1,4,5,12,14,17	3/7/12	3/9/12
	7.3-5,9,12,13		
Angle Modulation, FM, PM, transmission	5.1-4,8,9,11,15,17 5.2-1,4,5,6,7,8		
Bandwidth, transmission and detection	5.3-2,4,6,7,13 5.4-1,3,4,6,8,11	4/4/12	4/9/12
Random processes, correlation, power spectral density	3.6-6,12,13,16 9.1-1,7,12		
Random signals and noise, baseband transmission with noise, signal-to-noise ratio	9.2-1,2,14 9.3-3,4,14 9.4-2,3,5*,7*,8,9,13		
Noise in analog modulation systems	10.1-7,18 10.2-2,5,6,10,13,16 10.3-13 10.4-1,3,4	Final Exam	4/27/12
No Classes on 1/16,3/19-23,4/6 - Last Class on 4/27	*In Exercise 3.2-2, change frequency response to $5e^{-(j\text{sgn}(w)w^2)}$		
Final Exam 5-7PM, Tuesday, May 8, 2012	*In Exercise 4.2-6 Amplitude of message tone is one, making $S_x=1/2$.		
	*In Exercise 4.3-6, $A_c=1$.		
	*In Exercise 4.5-3 "the second oscillator frequency is $f_2 = f_1+W$ "		
	*In Exercise 7.1-17 "RLC" means one R, one L and one C in parallel with a -3dB bandwidth of 4 MHz		
	*In Exercise 9.4-5, "new value of W" should be "new value of ST".		
	*In Exercise 9.4-7 the bandwidth of the message is W.		