

Utah State University

ECE 3640

Homework # 4

Due Friday, Feb 10, 2006

- Reading

1. Chapter 11, Chapter 12.

- Homework:

1. (5 pts) 11.6-2. (We will not talk about this in class; you should carefully read section 11.6)
2. (5 pts) 11.4-4
3. (10 pts) 11.7-1(a,c)
4. (15 pts) 12.1-1(a,b,c). Also, plot the amplitude and phase response using MATLAB. (That is, determine the transfer function, and plot the frequency response from that. After doing that, plot the frequency response using the `freqz` command in MATLAB.
5. (10 pts) 12.1-2. Also, plot the amplitude and phase response using MATLAB using the `freqz` command. Are these linear phase filters?
6. (10 pts) 12.1-3.
7. (10 pts) 12.2-1
8. (15 pts) 12.2-2
9. (10 pts) 12.2-3
10. (5 pts) 12.2-4
11. (5 pts) 12.4-1