

# Homework #5

due Thursday March 1

1. Hirose and Lonngren, Chapter 2 #10
2. Hirose and Lonngren, Chapter 2 #11. Also find the phase and group velocities. Are they different? Why or why not?
3. Hirose and Lonngren Chapter 3, #7
4. Hirose and Lonngren, Chapter 4, #11
5. Hirose and Lonngren Chapter 4, #13
6. *Superposition of waves*. Download the files SpreadsheetWaveSum1.doc and SumWaves1.xls and follow the directions on SpreadsheetWaveSum1.doc. It will talk you through how to use Excel to plot superposed waves of similar and very different frequencies. Does the pattern of very different frequencies follow the pattern of beats we described in class?