

EE432 Fall 08 Homework Problem Set 3 (PS03)

1. MATLAB text, problem 6.14. You will need the file called: [elements.dat](#) .
2. MATLAB text, problem 8.2. The problem statement has you using the “linear” and “cubic” methods of interpolation, but also use the “pchip” method and plot all three interpolations on one plot with a legend. Label the axes.
3. MATLAB text, problem 8.7. Note that the end of this problem’s statement runs into the beginning of the next problem statement. The last line of this problem should be: “Increase the value of n to increase the accuracy of the estimate.” For this problem, after using the initial value $n=5$ (which is given), use $n=100$.
4. Find a website that contains some other type of real data that can be downloaded in text files. It could be somewhat similar to the data available at the National Data Buoy Center, but doesn’t have to be weather data. It needs to be signal data, meaning it is recorded at uniform time intervals over a given time period. Some examples are: seismic data, oceanographic data, financial data, etc. Pass me the data file and the link to the data. This may be the hardest problem in this problem set; to find good data.