

Fifth Problem Set

Suggested Readings (textbook): Chapter 8-9.

Suggested Problems (textbook):

Ch. 8: 8.1.11 8.2.6 8.2.11 8.2.12
8.3.1 8.5.2 8.6.7 8.7.5

Note: For 8.2.12; see if you can derive the criteria for a Hopf Bifurcation using the tools in the Handouts.

Strongly Suggested Problems:

---- "Fourier Series Problem".

---- "Variable Length Pendulum Problem".

To do these you will have to download the problem statements, and the MatLab® scripts in the "MatLab® for Fourier Series" link, namely:

readmeFouSer.m

fourierSC.m

FSFun.m

FSoption.m

FSoptionP.m

heatSI n.m

All this can be found in the 18.385 WEB page.

Problems to hand in for grading (textbook):

Ch. 8: 8.1.6 8.2.5 8.6.5 8.7.3
