

16.06 Principles of Automatic Control

Problem Set 4

Issued: September 28, 2012

Due: October 5, 2012

Instructions: Do each problem on separate sheets of paper, and staple the sheets for each problem together.

NOTE: Many of the problems ask you to sketch first, then use MATLAB. Do not use MATLAB first. You will not gain any intuition by looking at results — you need to learn to do the sketches by hand.

Also, some of the problems have many parts. Please try to understand how to do the problems before grinding through.

Problem 1

Do Problem 5.2 from FPE, parts (a)-(e)

Problem 2

Do Problem 5.4 from FPE, parts (b) and (d) only

Problem 3

Do Problem 5.6 from FPE, parts (a), (c), (e), and (g) only

Problem 4

Do Problem 5.8 from FPE, parts (a), (d), and (f) only

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