

Control System Homework 7

1.

CP9.3 Using the nichols function, obtain the Nichols chart with a grid for the following transfer functions:

(a) $G(s) = \frac{1}{s + 0.2};$

(b) $G(s) = \frac{1}{s^2 + 2s + 1};$

(c) $G(s) = \frac{6}{s^3 + 6s^2 + 11s + 6}.$

Determine the approximate phase and gain margins from the Nichols charts and label the charts accordingly.