ELECTRICAL ENGINEERING TECHNOLOGY PROGRAM  
EET 433 – CONTROL SYSTEMS ANALYSIS AND DESIGN  
LABORATORY EXPERIENCES  

CASE STUDIES  

CASE STUDY #1: Becoming familiar with the simulation software  

The goal of the work in this laboratory session is to become familiar with the simulation software that will be used in this course.  

Detailed information about this software can be found at  

www.programcc.com  

1.- Read the tutorial on the use of Program CC.  

2.- Consider the following transfer functions  

a) \[ g_1(s) = \frac{3s-5}{s^2+4s+2} \]  
b) \[ g_2(s) = \frac{3s+2}{(s^2+2s+10)(s^2+4s+8)} \]  

(Incidentally, these transfer functions correspond to problems 4 and 8 from the second homework assignment)  

3.- For the previous transfer functions, explore the different commands in the Program CC tutorial. Some of those commands will give you the answers to the homework assignments.  

This laboratory session does not require a lab report. You can learn about Program CC as much or as little as you want. However, keep in mind that this software will be used in future lab experiences and can also be used to verify solutions to assigned problems. How much you learn about Program CC today will affect your future performance.