

**Department of Chemical Engineering
IIT Bombay
CL692, Digital Control
Assignment 9
Handed out on: 7 Oct 2006
To be completed by: 12 Oct 2006**

In Example 7.3 on Page 250, we presented a lead controller to meet the requirements of an antenna control system. Design a 2-DOF pole placement controller to meet the same performance specifications. Carry out a theoretical analysis and explain why you think that this controller will work. Verify your design with simulations.