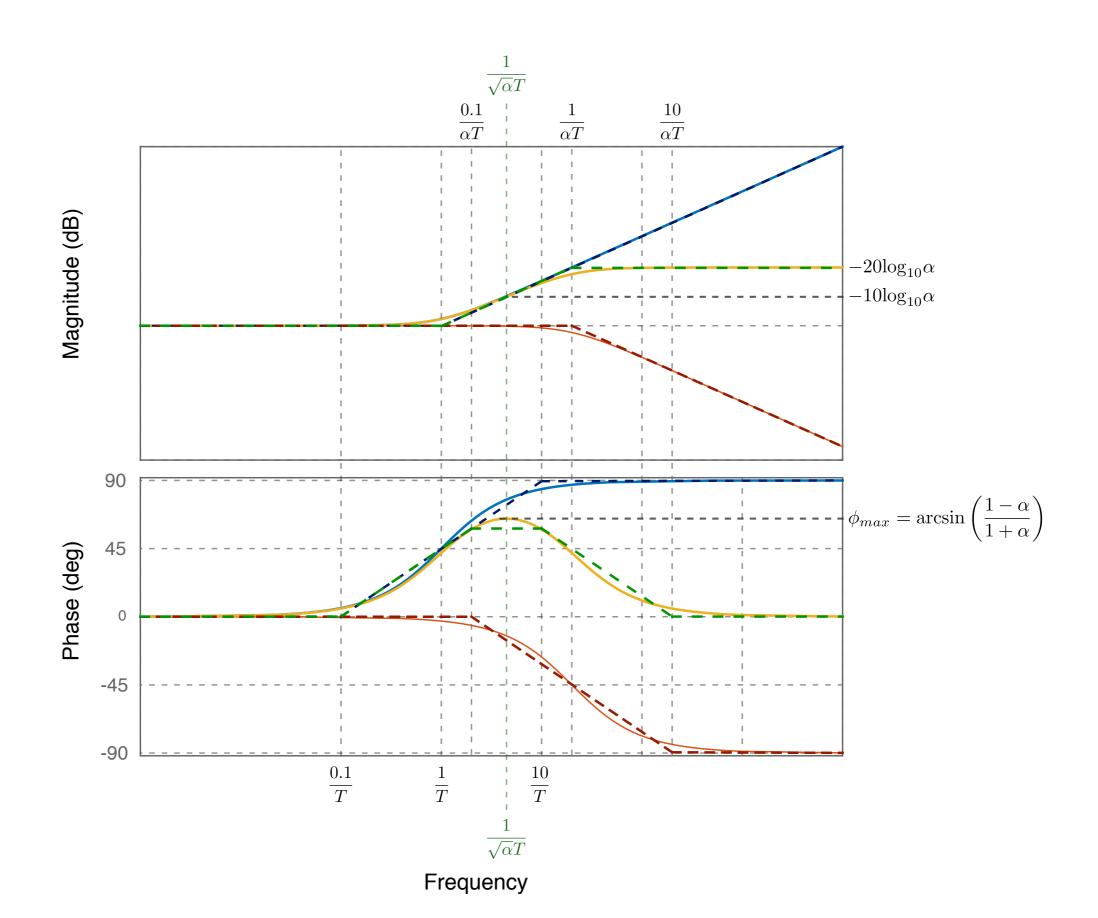
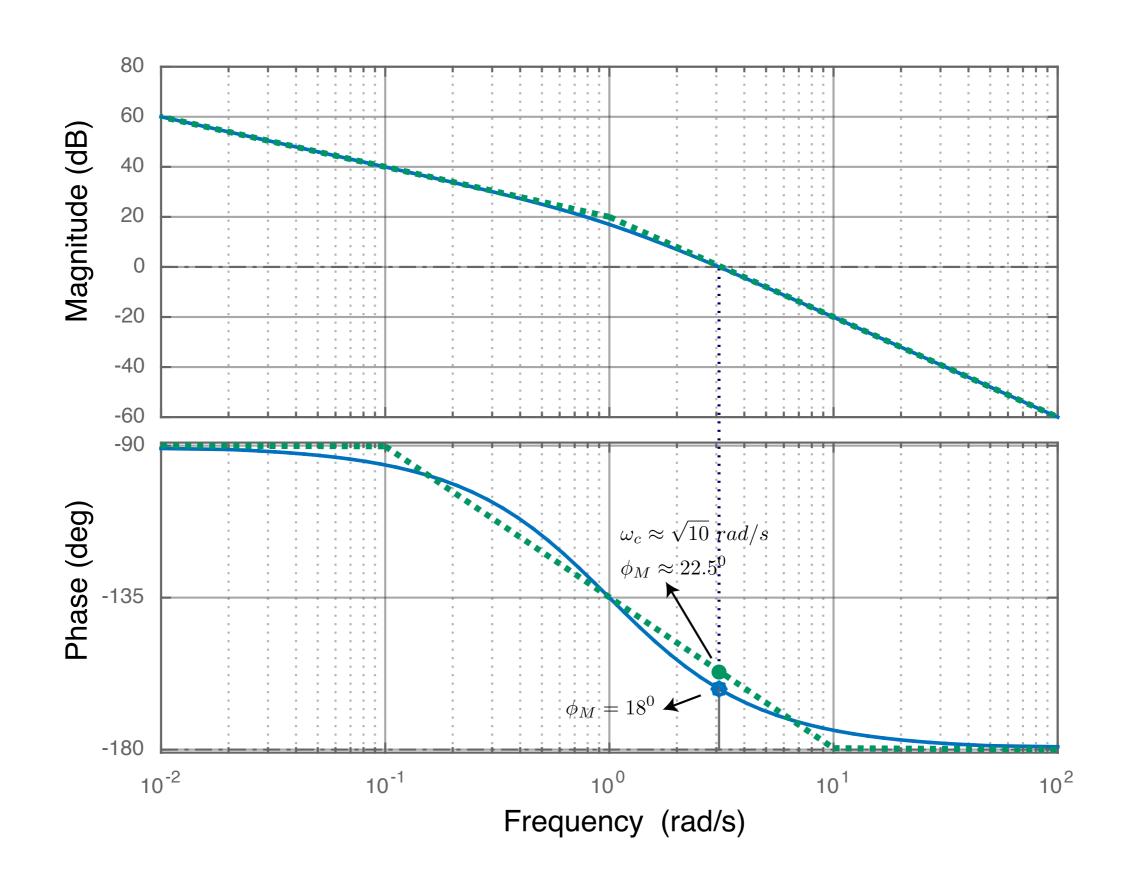
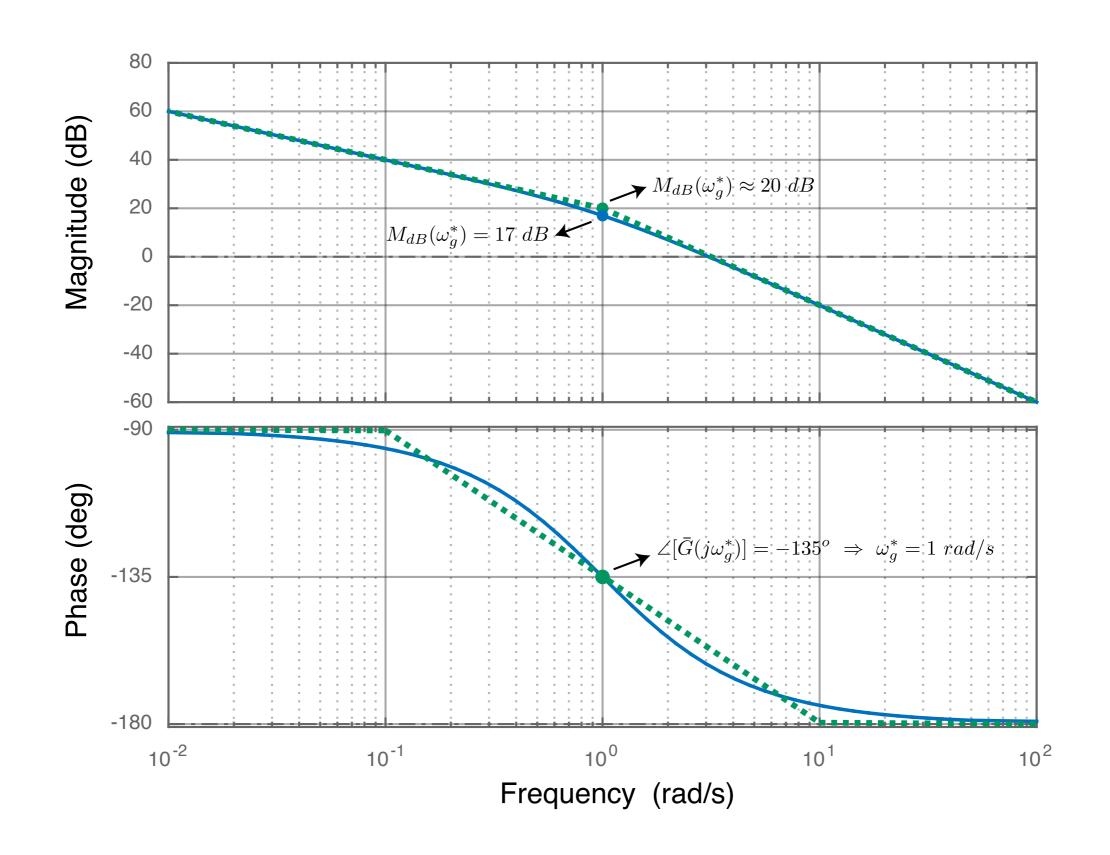
# **Phase-Lead Compensator**



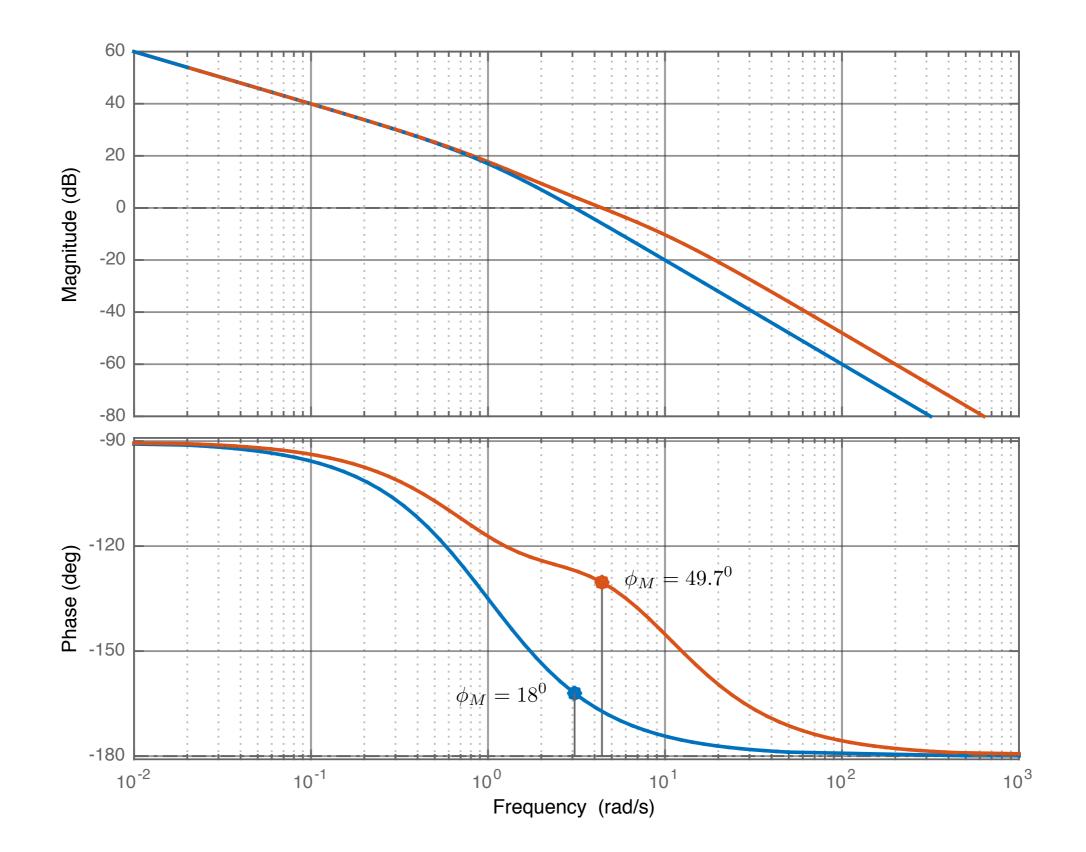
#### PM of Uncompensated System



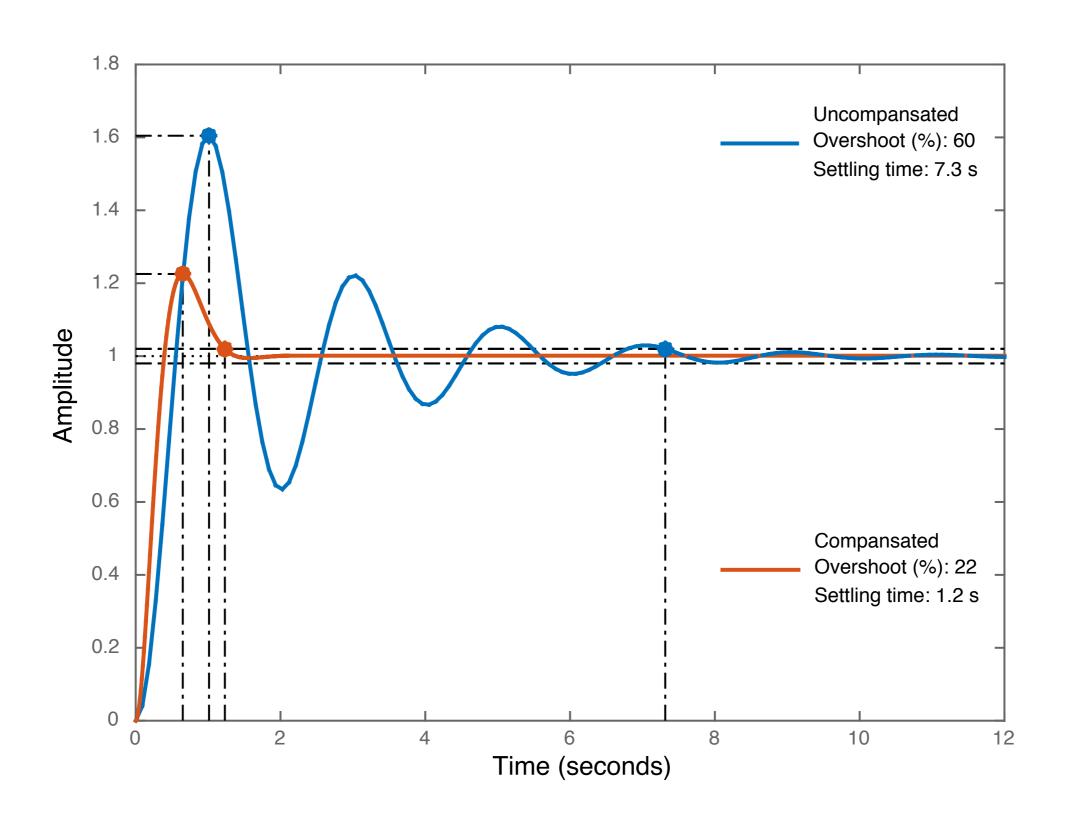
### **New Gain-Crossover Frequency**



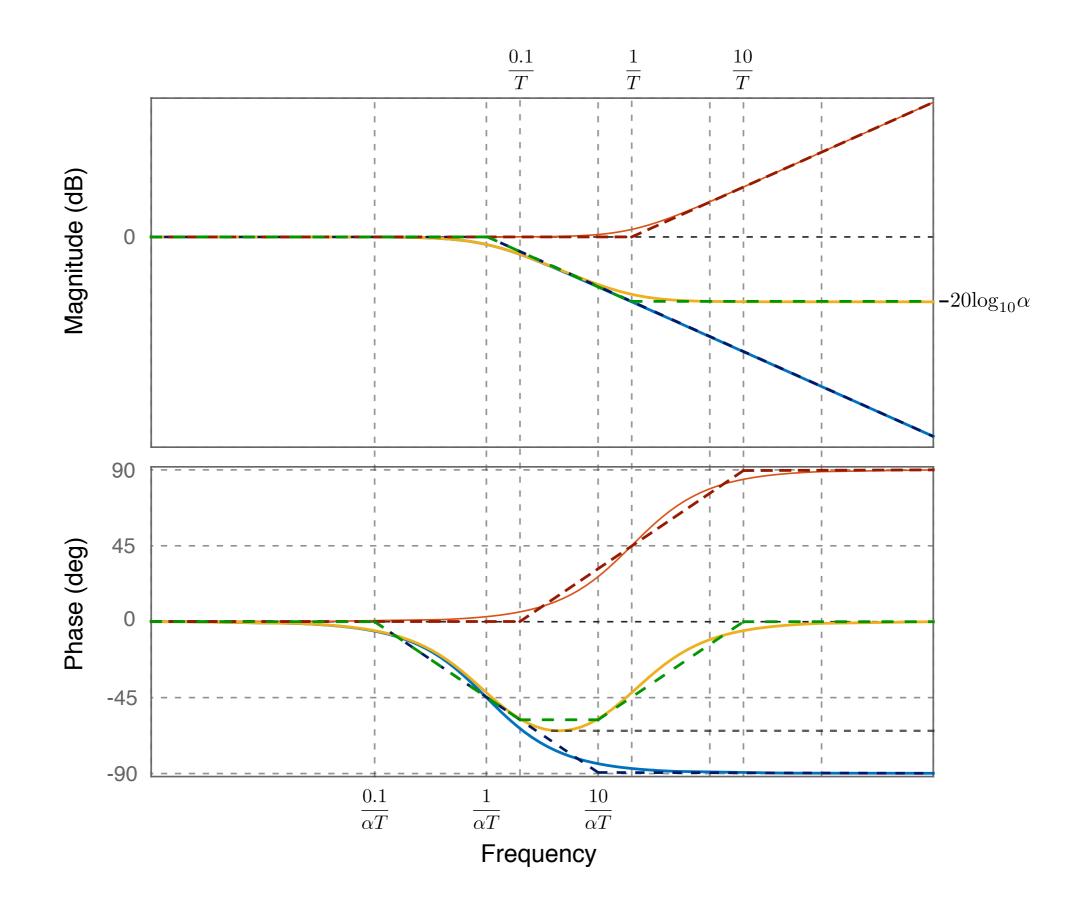
## Lead Compensator Result (Bode)



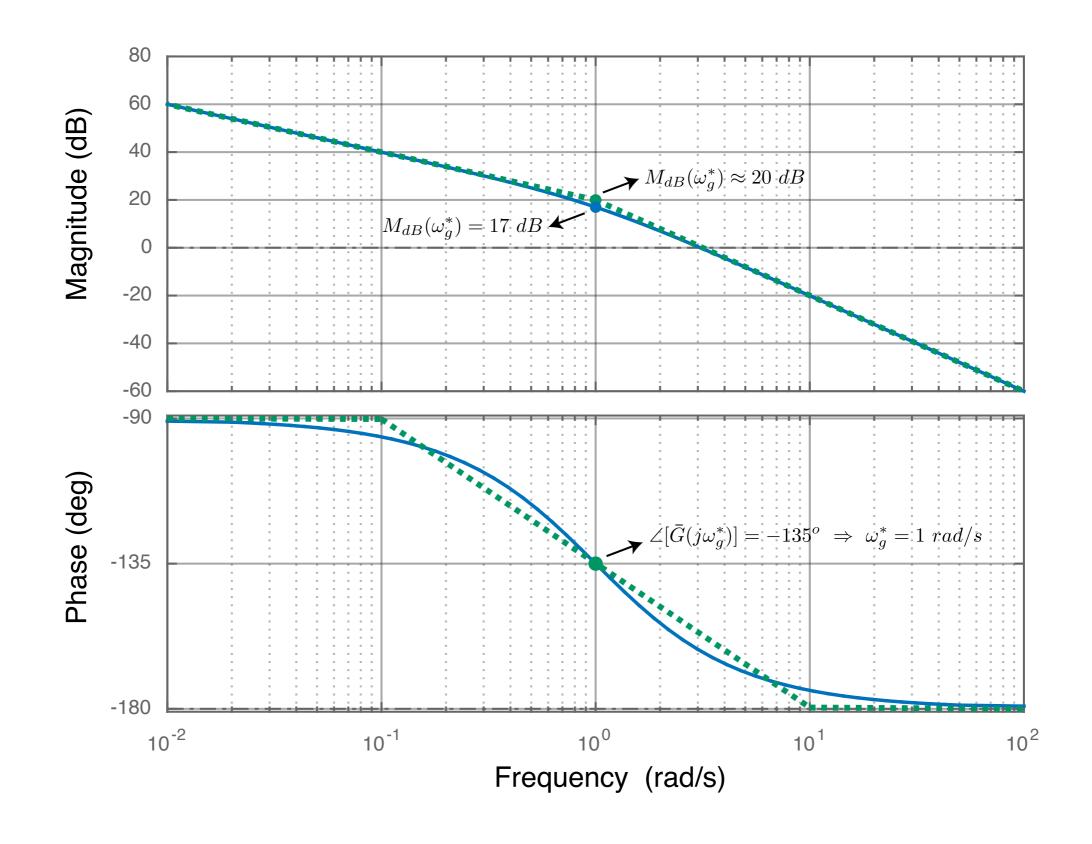
## Lead Compensator Result (Step)



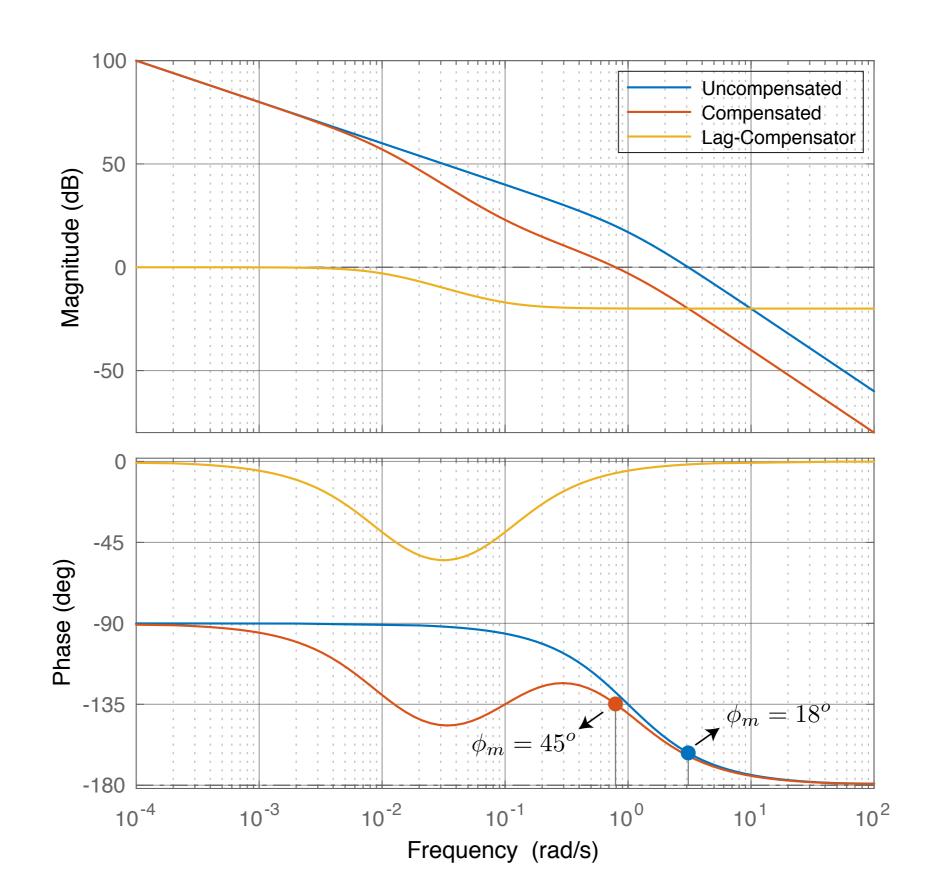
# **Phase-Lag Compensator**



### Required Gain-Crossover Frequency



### Lag Compensator Result (Bode)



### Lag Compensator Result (Step)

