

Plan of the Lecture

- ▶ **Review:** stability from frequency response
- ▶ **Today's topic:** control design using frequency response

Goal: understand the effect of various types of controllers (PD/lead, PI/lag) on the closed-loop performance by reading the open-loop Bode plot; develop frequency-response techniques for shaping transient and steady-state response using dynamic compensation

Reading: FPE, Chapter 6