

Plan of the Lecture

- ▶ **Review:** Bode plots for three types of transfer functions
- ▶ **Today's topic:** stability from frequency response; gain and phase margins

Goal: learn to read off stability properties of the closed-loop system from the Bode plot of the open-loop transfer function; define and calculate Gain and Phase Margins, important quantitative measures of “distance to instability.”

Reading: FPE, Section 6.1