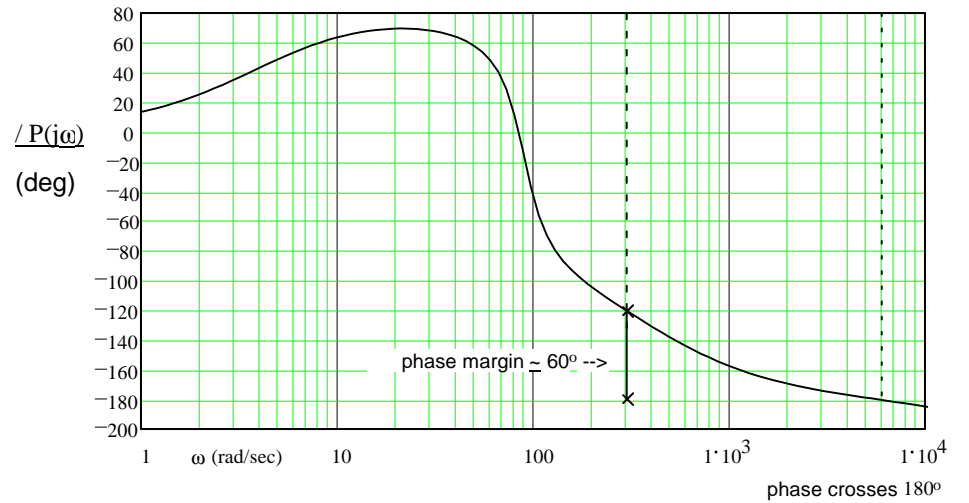
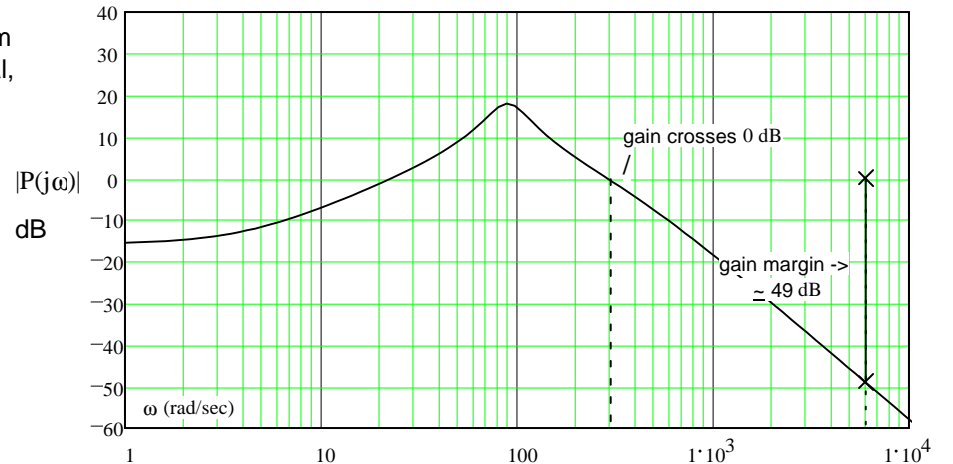


Gain Margin Doesn't apply

Phase Margin $PM_c := 180 \cdot \text{deg} - 162 \cdot \text{deg}$
 $PM_c = 18 \cdot \text{deg}$
 occurs at about: $\omega_{PMc} := 13 \cdot \frac{\text{rad}}{\text{sec}}$

Delay Margin $f_c := \frac{\omega_{PMc}}{2 \cdot \pi}$ $T_c := \frac{2 \cdot \pi}{\omega_{PMc}}$ $DM_c := \left(\frac{18 \cdot \text{deg}}{360 \cdot \text{deg}} \right) \cdot T_c$
 $DM_c = 24 \cdot \text{ms}$

From Final, S12



Gain Margin $GM := 49 \cdot \text{dB}$

Phase Margin $180 - 120 = 60$ $PM_d := 60 \cdot \text{deg}$
 occurs at about: $300 \cdot \frac{\text{rad}}{\text{sec}}$

Delay Margin $f_d := \frac{300}{2 \cdot \pi}$ $T_d := \frac{2 \cdot \pi}{300 \cdot \frac{\text{rad}}{\text{sec}}}$ $T_d = 0.021 \cdot \text{sec}$
 $DM_d := \left(\frac{60 \cdot \text{deg}}{360 \cdot \text{deg}} \right) \cdot T_d$ $DM_d = 3.49 \cdot \text{ms}$