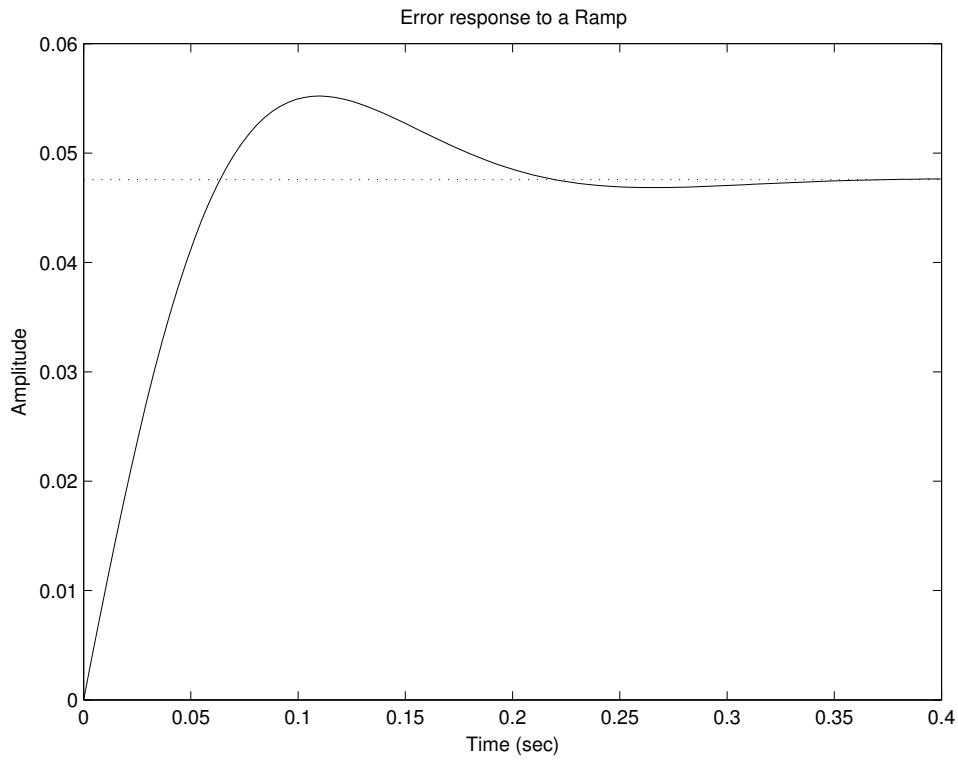
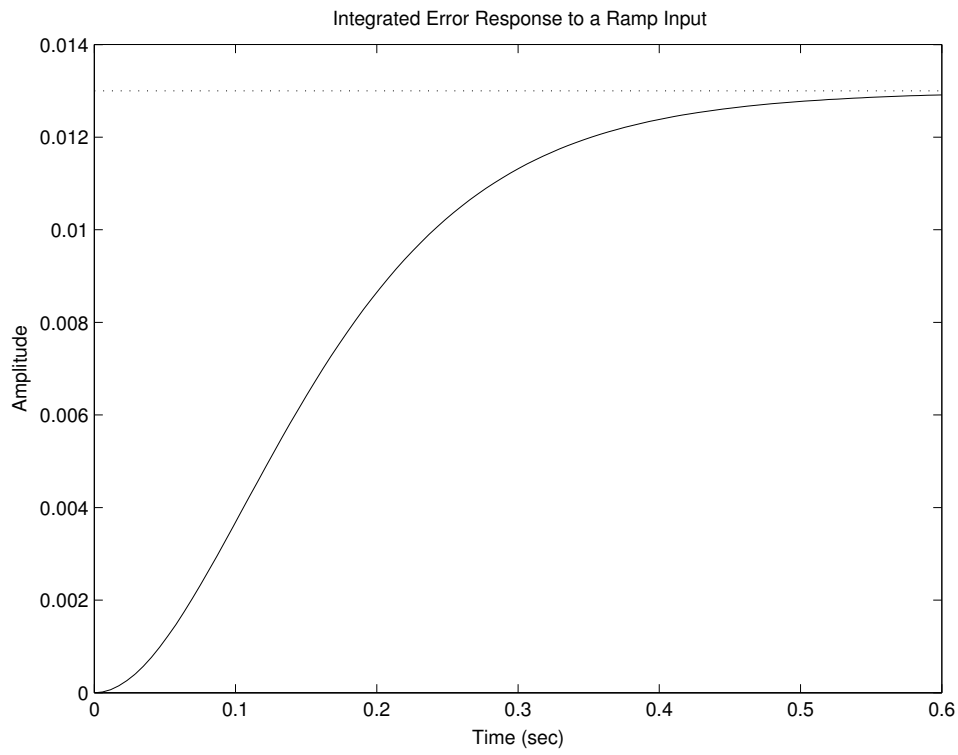
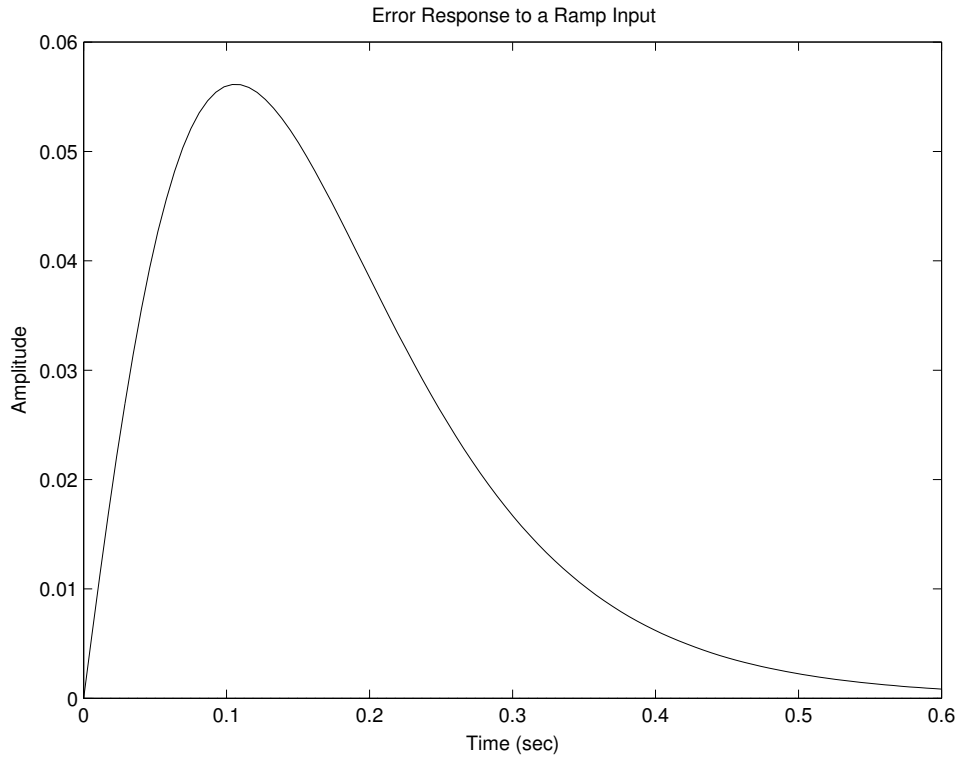


# 6.302 Lab 1D Report

Michael Salib

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$$\zeta = \sqrt{\frac{(\ln P_o - 1)^2}{\pi^2 + (\ln P_o - 1)^2}}$$

$$\omega_n = \frac{\omega_d}{\sqrt{1 - \zeta^2}}$$

$$\zeta = \sqrt{\frac{1 \pm \sqrt{1 - \frac{1}{M_p^2}}}{2}}$$

$$\omega_n = \frac{\omega_p}{\sqrt{1 - 2\zeta^2}}$$