

$$\omega(s) = G(s) E_a(s)$$

$$= \left[\frac{K_0}{s^2 + 2\zeta\omega_n s + \omega_n^2} \right] \left[\frac{E_{aNom}}{s} \right]$$

$$= \frac{K_0 E_{aNom}}{s(s^2 + 2\zeta\omega_n s + \omega_n^2)}$$

$$\omega(t) = \mathcal{L}^{-1} \left[\frac{K_0 E_{aNom}}{s(s^2 + 2\zeta\omega_n s + \omega_n^2)} \right]$$

TABEL
LAPLACE

- (1) $0 < \zeta < 1 \rightarrow$ underdamped
- (2) $\zeta = 1 \rightarrow$ critically damped
- (3) $\zeta > 1 \rightarrow$ overdamped