

* Praktikum INDIVIDU

$$G(s) = \frac{60}{2\pi} \left[\frac{\frac{1}{s(s+0,1)}}{1 + \frac{0,05}{s(s+0,1)}} \right]$$

$$= \frac{60}{2\pi} \left[\frac{1}{s^2 + \underbrace{0,1s}_{2\zeta\omega_n} + \underbrace{0,05}_{\omega_n^2}} \right]$$

ζ $\begin{cases} > 1 \\ \approx 1 \\ 0-1 \end{cases}$

$$w(s) = G(s) E_a(s)$$

$$= \frac{60}{2\pi} \left[\frac{1}{s^2 + 0,1s + 0,05} \right] \left[\frac{15}{s} \right] = \frac{900}{2\pi} \left[\frac{1}{s[s^2 + 0,1s + 0,05]} \right]$$

$$w(t) = \mathcal{L}^{-1} w(s)$$