

* Analisis Keadaan Tunak (Steady State)

$v_s(t)$ syarat periodik

- sinusoida murni

$$v_s(t) = A \sin(\omega t + \phi)$$

$$\omega = 2\pi f$$

$$- v_s(t) = \sum_{n=1}^{\infty} A_n \sin(n\omega t + \phi_n)$$

$\omega = \text{frek.}$

fundamental

$n\omega, n > 1 =$
harmonik

$$\omega = 2\pi f, f = \frac{1}{T}$$

$T = \text{periode}$

$$\boxed{s = j\omega} \rightarrow j = \sqrt{-1}$$
$$G(s) \rightarrow G(j\omega) = \frac{1}{j\omega + 1}$$

ω : omega = $2\pi f$, $f = \frac{1}{T}$
frek. sudut rad/sec