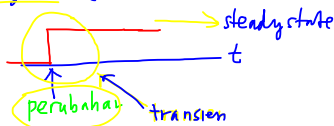


- * Urgensi Pemodelan SISTEM
- * Pemodelan STATIK $\Rightarrow$ Watak Alih (Transfer Characteristic)
- * Pemodelan DINAMIK
- * Pemodelan Nisbah Alih (Transfer Function)
- * Pemodelan Ruang Keadaan (State Space)

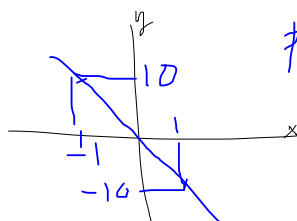
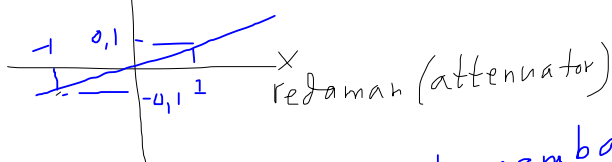
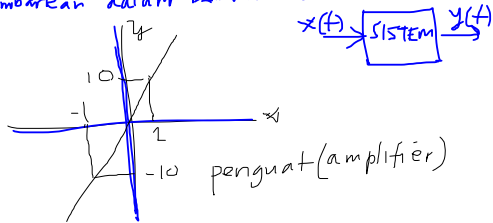
* Pemodelan STATIK

Pemodelan Watak Alih (Transfer Characteristics)

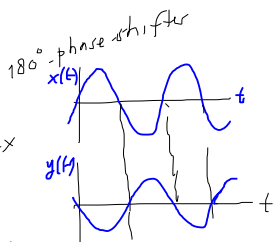
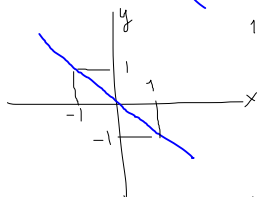
- $\Rightarrow$ "Statik", tidak melibatkan parameter waktu t
- $\Rightarrow$ "Steady-state" (keadaan tunas) $\times$ "transien"



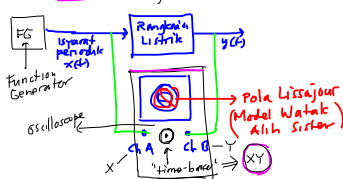
* Digambarkan dalam bentuk salib sumbu



penguat membalik
inverting-amplifier

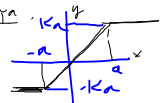


* Pola Lissajous

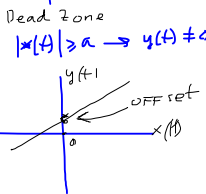
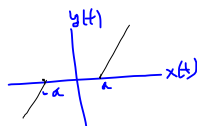
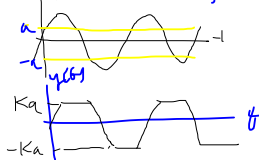


* Lebih bermanfaat untuk model sistem tak linier

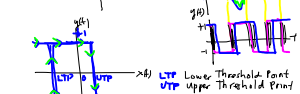
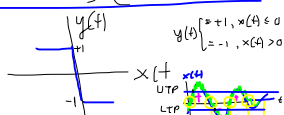
$\Rightarrow$ Micalnya



$$y(t) = \begin{cases} Kx(t), & |x(t)| \leq a \\ K a, & x(t) > a \\ -K a, & x(t) < -a \end{cases}$$



* Pembanding (Komparator)



Pembanding Potensi (bilal dan parameter)
- Schmitt Trigger
- Hysteresis Tegak

Hysteresis

Karakteristik TRANSISTOR

Next

* Model Nisbah-Alih (Transfer Function)

* Apa itu Nisbah-Alih?
What is a Transfer Function?