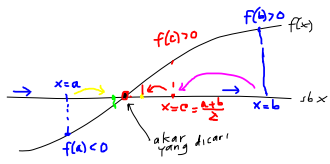


Gagasan Metode Bisection



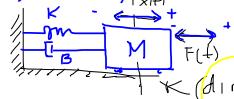
Realita Fisik

Sistem SUSPensi kendaraan bermotor



Model Fisik

Spring-Mass-Damper



Model MATEMATIK

Pert. Differensial

$$F(t) = M \frac{d^2 x(t)}{dt^2} + B \frac{dx(t)}{dt} + Kx(t)$$

Contoh

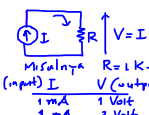
Membuat model konsumsi energi listrik



Setiap tahun model kebutuhan bisa diperbaiki berdasarkan pengamatan pada tahun ttb

VALIDASI

Deterministik dan Stokastik



Misalnya	$R = 1 \text{ k}\Omega \pm 10\%$	$V(\text{input})$	$V(\text{output})$
1 mA	1 Volt	1 Volt	1 Volt
2 mA	2 Volt	2 Volt	2 Volt
3 mA	3 Volt	3 Volt	3 Volt

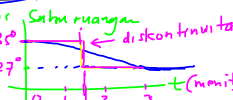
Deterministik

Stokastik

KHAOTIK (chaotic)

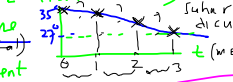
* Sistem Kontinu (Malar)

⇒ time-continuous



* Sistem Diskont

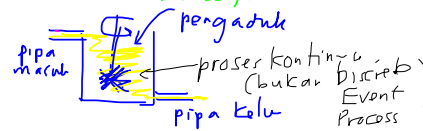
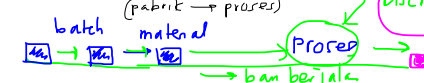
⇒ Discrete-time



(sistem digital)

⇒ Discrete-event

(pabrik → proses)



"ANALOG"

"DIGITAL"

A/D Converter
D/A Converter