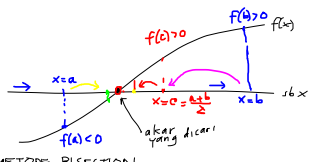
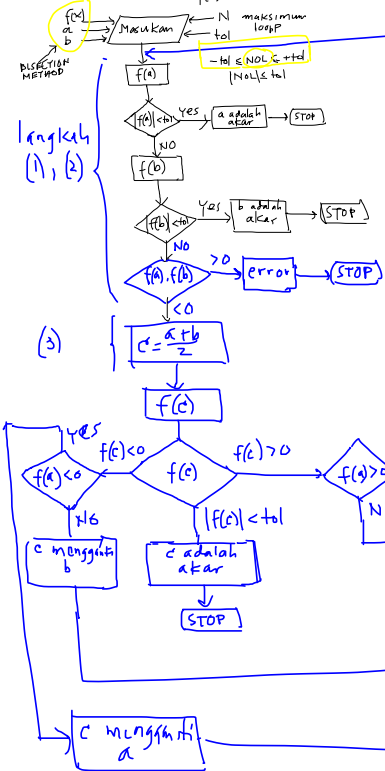


Gagasan Metode Bisection



Flowchart Program METODE BISECTION



langkah (4), (5), (6)

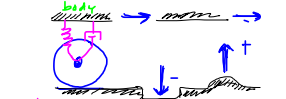
Model Matematika stok

demand (kebutuhan)

supply

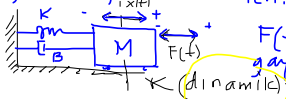
Realita Fisik

Sistem SUSPensi kendaraan bermotor



Model Fisik

Spring-Mass-Damper



Model MATEMATIK

Pert. Differensial

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

Deterministik dan Stokastik



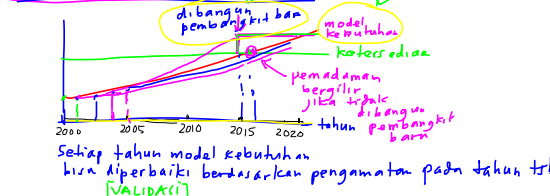
Input I	Output V
1 mA	0.9 - 1.1
2 mA	1.8 - 2.2
3 mA	2.7 - 3.3

Deterministik dan Stokastik

KHAOTIK (chaotic)

Contoh

Membuat model konsumsi energi listrik



Setiap tahun model kebutuhan harus diperbaiki berdasarkan pengamatan pada tahun tsb

[VALIDASI]

* Sistem Kontinu (Malar)

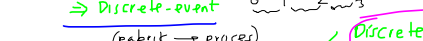
time-continuous



* Sistem Diskrit (buatan manusia)

Discrete-time (sistem digital)

Discrete-event



(pabrik - proses)

batch material

proses

barang jadi



"ANALOG"

"DIGITAL"

A/D Converter
D/A Converter