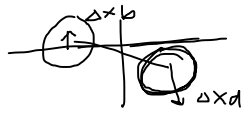
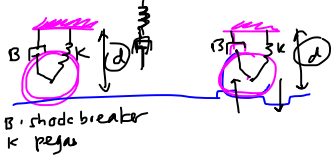
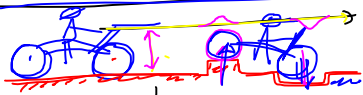


PROJECT 2 Sistem SUSPENSİ SEPEDA MOTOR



Model

$F(t)$ gaya guncanya

$F(t)$

Sistem Roda Depan

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

Δx_d

Δx_b

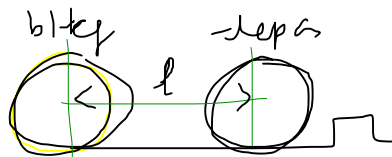
Δx_d

Δx_b

Δx_d

Δx_b

$F(t) > 0$ guncang naik
 $F(t) < 0$ guncang turun



- roda depan terguncang pada jam 10:00.00

- roda belakang terguncang pada jam 10:00.00

$y(t)$ = posisi sesant pengendara terhadap jalan

Δ tergantung pada l (panjang roda) dan v (kecepatan)

Mis. $l = 120 \text{ cm}$

$v = 15 \text{ km/jam}$

$\Delta = ???$

$$v = 15 \text{ km/jam} = \frac{1500000 \text{ cm}}{3600} \text{ cm/sec}$$

$$= 416,667 \text{ cm/sec}$$

$$\Delta = \frac{l}{v} = \frac{120 \text{ cm}}{416,66 \text{ cm/sec}} = 0,28 \text{ sec}$$

VALIDASI

MODEL SIMULINK