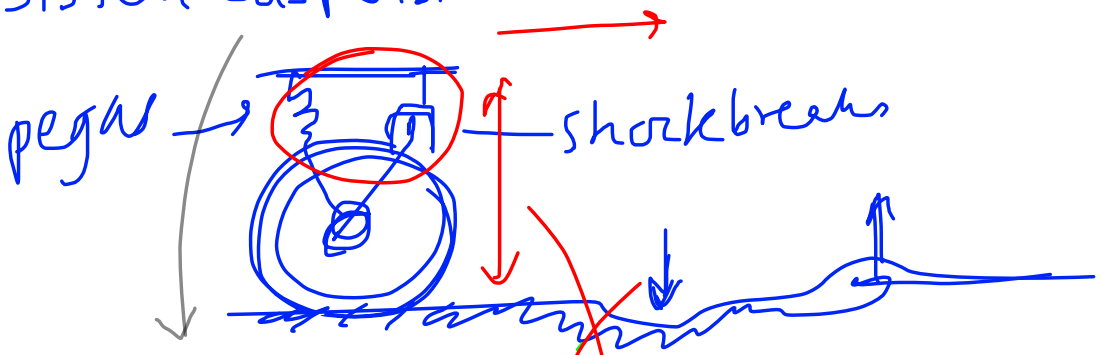
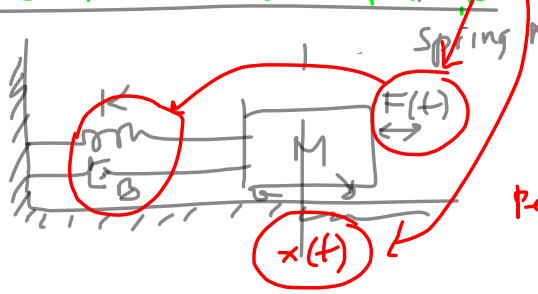
Sistem Suspensi



model FISIK DINAMIS



Model Matematik Dinamik

Hukum Newton :

t = time, waktu

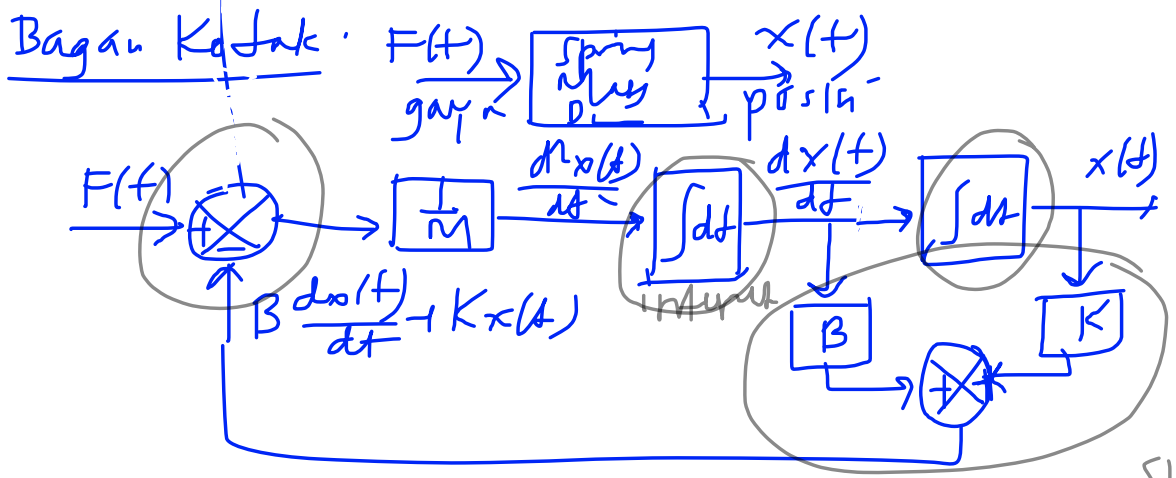
Pers differensial

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

percepatan — kecepatan — posisi

$$\frac{d^2x(t)}{dt^2} = \frac{1}{M}\left[F(t) - \left(B\frac{dx(t)}{dt} + Kx(t)\right)\right]$$

Bagan Kotak :



SIMULINK

elektronik — PROGRAM — Simulink