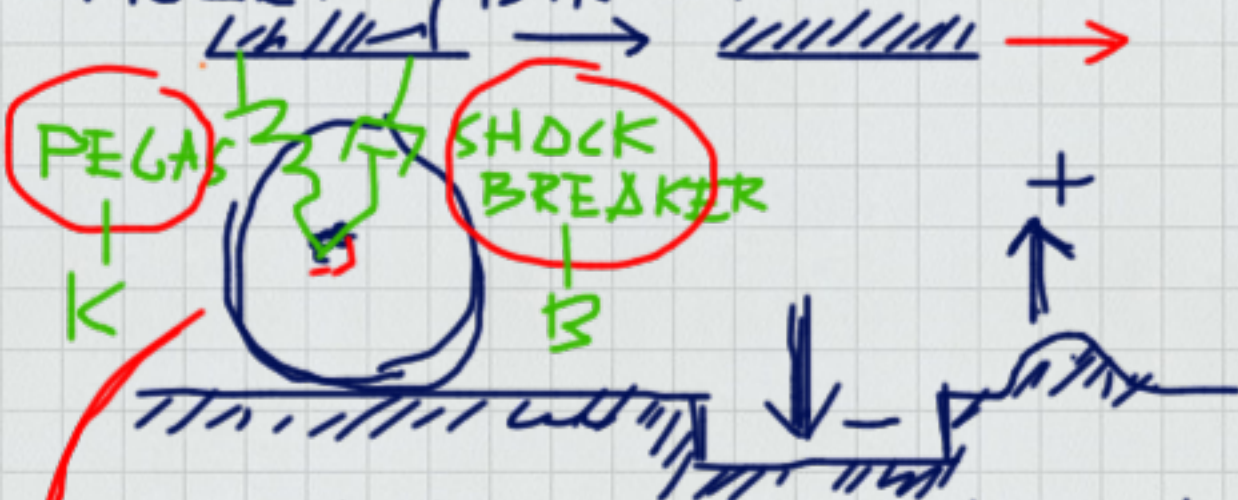


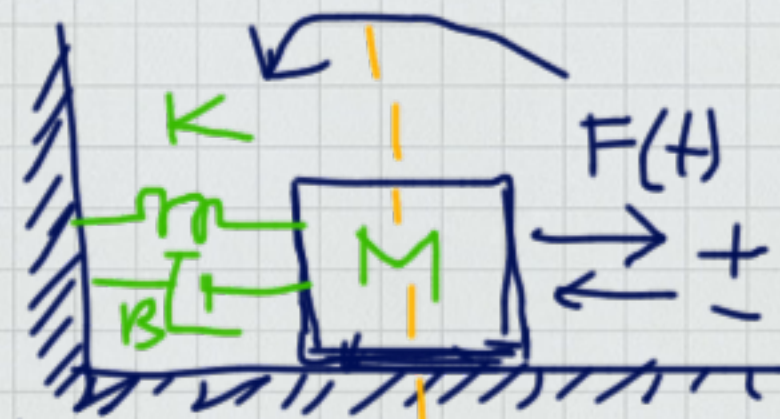
* Contoh Mekanik

Sistem "Spring-Mass-Damper"

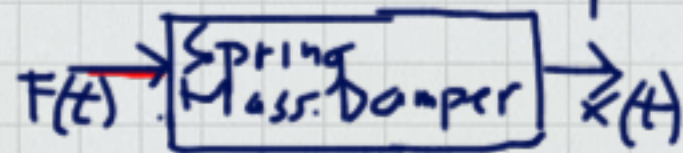
model fisik dari sistem SUSPENSİ



⇒ model fisik



Sistem Suspensi pada roda



Bagan Ketak

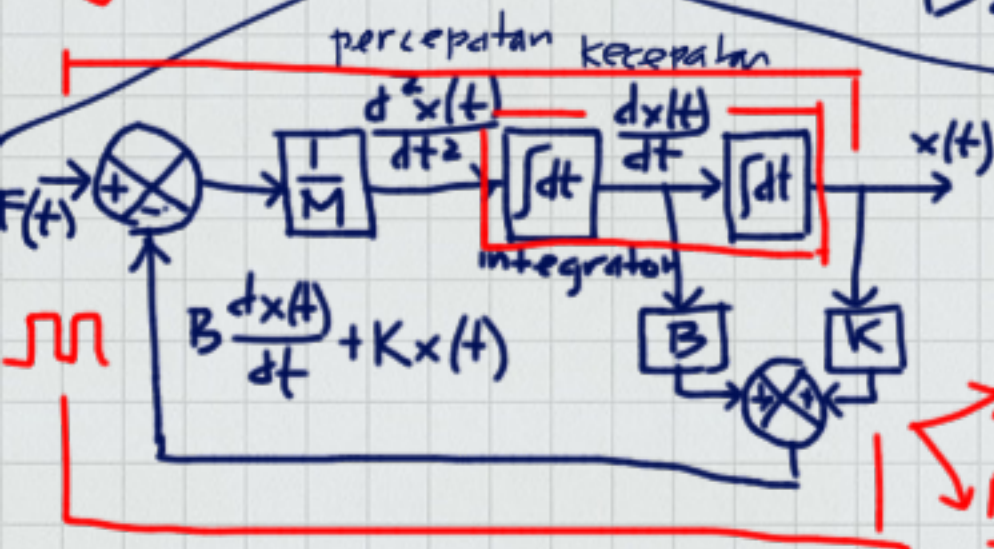
Spring
Mass
Damper $x(t)$

model matematik

Pers. Differensial
Hukum Newton:

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

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



Electronic
Programmer