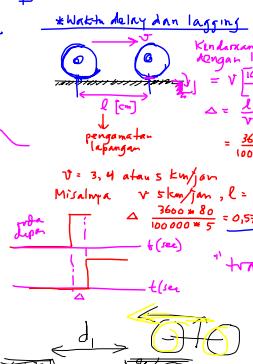


Hukum Newton:

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

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

perubahan keadaan  
 $x_b$ : posisi roda belakang terhadap tanah  
 $x_d$ : posisi roda depan terhadap tanah  
 $x = \frac{1}{2}(x_b + x_d)$  = posisi pengendara terhadap tanah



lagging  
Transfer Function  
 $\frac{1}{\tau s + 1}$   
time constant (konstanta waktu)

Dari pengamatan lapangan:

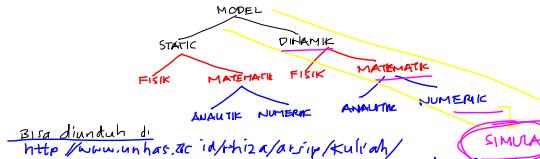
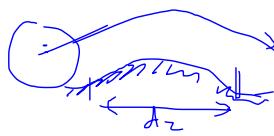
$$d_1 = 40 \text{ cm}$$

$$t_1 = \frac{3600 d_1}{100000 v} \text{ sec.}$$

$$= 0,288 \text{ sec}$$

$$d_2 = 50 \text{ cm}$$

$$t_2 = \frac{3600 d_2}{100000 v} = 0,36 \text{ sec}$$



Project 1 "VERIFIKASI SIMULINK" → Pemodelan dan Simulasi

Kasus: Pendekasan muatan Kapasitor melalui Resistor

Model Rangkaian Listrik:

$$\int x_1 dx = \frac{1}{2} x_1^2$$

$$\int x_2 dx = \frac{1}{2} x_2^2$$

$$\int x_3 dx = \frac{1}{3} x_3^3$$

$$\int x_4 dx = -x_4$$

$$\int x_5 dx = -x_5$$

$$\int x_6 dx = -x_6$$

$$\int x_7 dx = -x_7$$

$$\int x_8 dx = -x_8$$

$$\int x_9 dx = -x_9$$

$$\int x_{10} dx = -x_{10}$$

$$\int x_{11} dx = -x_{11}$$

$$\int x_{12} dx = -x_{12}$$

$$\int x_{13} dx = -x_{13}$$

$$\int x_{14} dx = -x_{14}$$

$$\int x_{15} dx = -x_{15}$$

$$\int x_{16} dx = -x_{16}$$

$$\int x_{17} dx = -x_{17}$$

$$\int x_{18} dx = -x_{18}$$

$$\int x_{19} dx = -x_{19}$$

$$\int x_{20} dx = -x_{20}$$

$$\int x_{21} dx = -x_{21}$$

$$\int x_{22} dx = -x_{22}$$

$$\int x_{23} dx = -x_{23}$$

$$\int x_{24} dx = -x_{24}$$

$$\int x_{25} dx = -x_{25}$$

$$\int x_{26} dx = -x_{26}$$

$$\int x_{27} dx = -x_{27}$$

$$\int x_{28} dx = -x_{28}$$

$$\int x_{29} dx = -x_{29}$$

$$\int x_{30} dx = -x_{30}$$

$$\int x_{31} dx = -x_{31}$$

$$\int x_{32} dx = -x_{32}$$

$$\int x_{33} dx = -x_{33}$$

$$\int x_{34} dx = -x_{34}$$

$$\int x_{35} dx = -x_{35}$$

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$$\int x_{161} dx = -x_{161}$$

$$\int x_{162} dx = -x_{162}$$

$$\int x_{163} dx = -x_{163}$$

$$\int x_{164} dx = -x_{164}$$

$$\int x_{165} dx = -x_{165}$$

$$\int x_{166} dx = -x_{166}$$

$$\int x_{167} dx = -x_{167}$$

$$\int x_{168} dx = -x_{168}$$

$$\int x_{169} dx = -x_{169}$$

$$\int x_{170} dx = -x_{170}$$

$$\int x_{171} dx = -x_{171}$$

$$\int x_{172} dx = -x_{172}$$

$$\int x_{173} dx = -x_{173}$$

$$\int x_{174} dx = -x_{174}$$

$$\int x_{175} dx = -x_{175}$$

$$\int x_{176} dx = -x_{176}$$

$$\int x_{177} dx = -x_{177}$$

$$\int x_{178} dx = -x_{178}$$

$$\int x_{179} dx = -x_{179}$$

$$\int x_{180} dx = -x_{180}$$