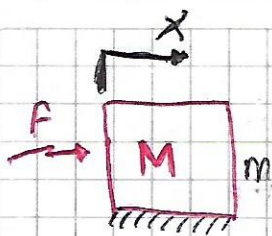


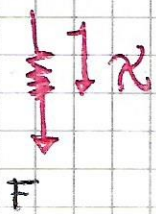
Lourenço Eduardo Reis J.

14/01/20

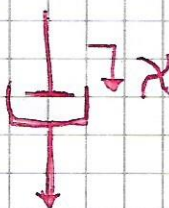


$$f = m \frac{dx^2}{dt^2}$$

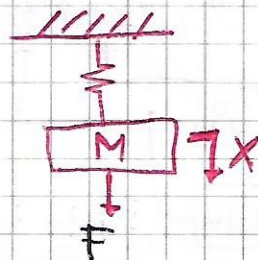
$$F = ma$$



$$F = Kx$$



$$F = B \frac{dx}{dt}$$



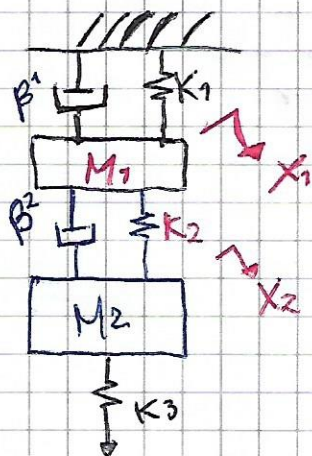
$$F = F_K + F_m$$

$$F = B \frac{dx}{dt} + m \frac{d^2x}{dt^2}$$

$$② F = Bxs + mXs^2$$

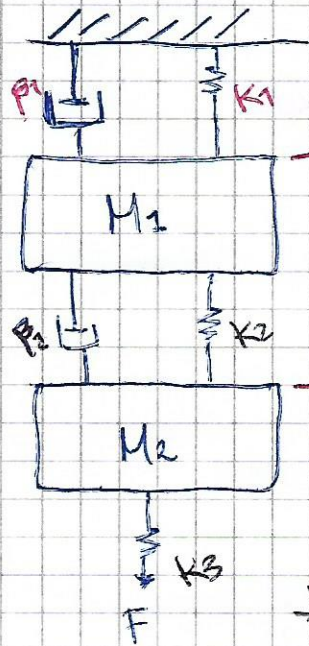
$$③ F = X(Bs + ms^2)$$

$$\frac{X}{F} = \frac{1}{Bs + ms^2}$$



Luciano Eduardo Romo A.

01/02/20



$$*F = F_{B1} + F_{K1} + F_{M1} + F_{B2} + F_{K2} + F_{M2} + F_{K3}$$

$$*F = B_1 \frac{dx}{dt} + K_1 \frac{d^2x}{dt^2} + M_1 \frac{d^3x}{dt^3} + B_2 \frac{dy}{dt} + K_2 \frac{d^2y}{dt^2} + M_2 \frac{d^3y}{dt^3}$$

$$F = B_1 X_1 s + K_1 X_1 s^2 + M_1 X_1 s^3 + B_2 X_2 s + K_2 X_2 s^2 + M_2 X_2 s^3 + K_3 X_2 s^4$$

$$F = X_1 (B_1 s + K_1 s^2 + M_1 s^3) + X_2 (B_2 s + K_2 s^2 + M_2 s^3 + K_3 s^4)$$

$$\frac{X_1}{F} = \frac{1}{B_1 s + K_1 s^2 + M_1 s^3} + X_2 (B_2 s + K_2 s^2 + M_2 s^3 + K_3 s^4)$$

$$\frac{X}{F} = \frac{1}{B_1 s + K_1 s^2 + M_1 s^3}$$

$$\frac{X}{F} = \frac{1}{B_2 s + K_2 s^2 + M_2 s^3 + K_3 s^4}$$