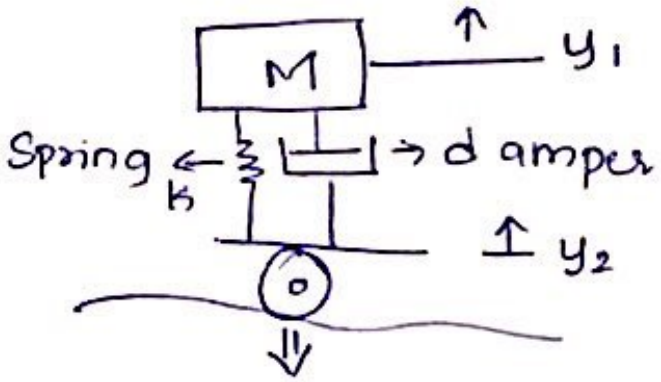
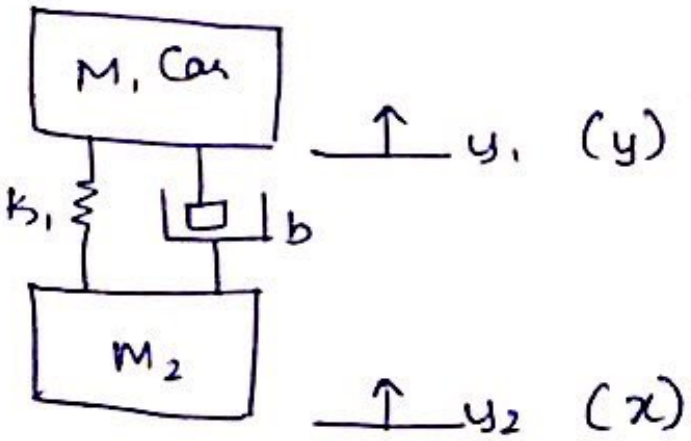
Simplified model





Equations:

$$M_2 \frac{d^2y_2}{dt^2} = K_1(y_1 - y_2) + b\left(\frac{dy_1}{dt} - \frac{dy_2}{dt}\right) - K_2(y_2 - w)$$

$$M_2 \frac{d^2y_2}{dt^2} = -K_1(y_1 - y_2) + b\left(\frac{dy_1}{dt} - \frac{dy_2}{dt}\right) - K_2(y_2 - w)$$

$$M_1 \frac{d^2y_1}{dt^2} = K_1(y_1 - y_2) + b\left(\frac{dy_1}{dt} - \frac{dy_2}{dt}\right) \mu$$

$$M_1 \frac{d^2y_1}{dt} = K_1(y_2 - y_1) - b\left(\frac{dy_1}{dt} - \frac{dy}{dt}\right.$$