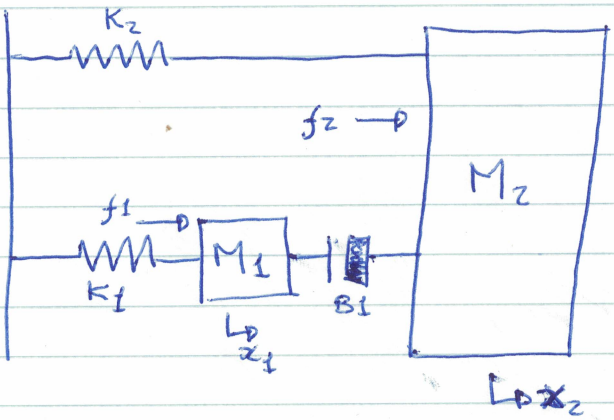

$$\Sigma F_R = M \ddot{x}$$

$$\begin{cases} M1: & f_1(t) - K_1(x_1) - B_1(\dot{x}_1 - \dot{x}_2) = M_1 \ddot{x}_1 \\ M2: & f_2(t) - K_2(x_2) - B_1(\dot{x}_2 - \dot{x}_1) = M_2 \ddot{x}_2 \end{cases}$$