



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

$$\left\{ \begin{array}{l} M_1 : \\ M_2 : \end{array} \right. \begin{array}{l} f_1(t) - K_1(x_1) - B_1(\dot{x}_1 - \dot{x}_2) = M_1 \ddot{x}_1 \\ f_2(t) - K_2(x_2) - B_1(\dot{x}_2 - \dot{x}_1) = M_2 \ddot{x}_2 \end{array}$$