$$m, \dot{\approx}, = \leq F$$

$$m_1 \dot{x}_1 = F_1 + K_2(x_2 - x_1) + c_2(\dot{x}_2 - \dot{x}_1) - K_1(x_1) - C_1(\dot{x}_1)$$

$$m_1 \stackrel{\circ}{\times}_1 = F_1 + \times_1 \cdot (-K_2 + -K_1)$$
  
+  $\times_2 \cdot (K_2)$   
+  $\stackrel{\circ}{\times}_1 \cdot (-C_2 + -C_1)$   
+  $\stackrel{\circ}{\times}_2 \cdot (C_2)$ 

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$$m_a \stackrel{\bullet}{x}_{\lambda} = \leq F$$

$$m_{1}\ddot{x}_{1} = F_{2} - K_{2}(x_{1} - x_{1}) - C_{2}(\dot{x}_{2} - \dot{x}_{1})$$

$$- K_{3}(x_{2}) - C_{3}(\dot{x}_{2})$$

$$m_{2}\dot{x}_{1} = F_{2} + x_{1}(K_{2})$$
  
+  $x_{1}(-K_{2} + -K_{3})$   
+  $\dot{x}_{1}(C_{2})$   
+  $\dot{x}_{2}(-C_{2} + -C_{3})$ 

$$\begin{bmatrix} m_1 & 0 \\ 0 & m_2 \end{bmatrix} \begin{pmatrix} \ddot{z}_1 \\ \ddot{z}_2 \end{pmatrix} + \begin{bmatrix} (c_1 + c_2) & -c_2 \\ -c_2 & (c_2 + c_3) \end{bmatrix} \begin{pmatrix} \dot{z}_1 \\ \dot{z}_2 \end{pmatrix} + \begin{bmatrix} (K_1 + K_2) & -K_2 \\ -K_2 & (K_2 + K_3) \end{bmatrix} \begin{pmatrix} \chi_1 \\ \chi_2 \end{pmatrix} = \begin{pmatrix} F_1 \\ F_2 \end{pmatrix}$$