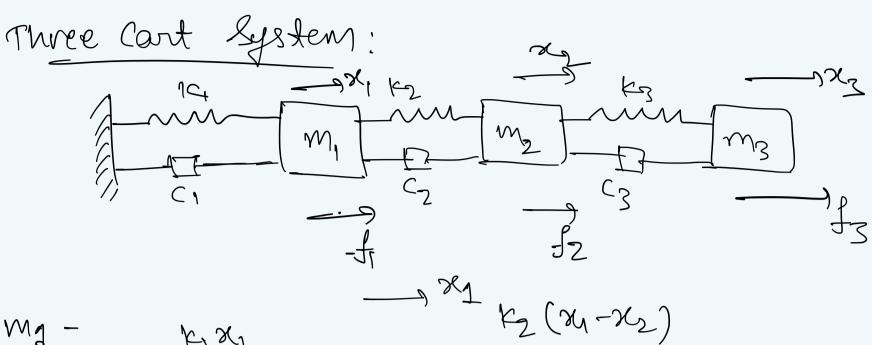
1530

ETF_Controls



 $\frac{1}{m_1} - \frac{x_1 x_1}{m_1} + \frac{x_2 (x_1 - x_2)}{c_1 x_1}$ $\frac{1}{m_1} + \frac{x_2 (x_1 - x_2)}{m_1}$

 $m_1 \dot{x}_1 = f_1 - k_1 x_1 - k_2 x_1 + k_2 x_2 - c_1 x_1 - c_2 \dot{x}_1 + c_2 \dot{x}_2$ $m_2 - k_2 (x_2 - x_1)$ $m_2 = k_3 (x_2 - x_3)$ $m_3 = k_4 (x_2 - x_3)$ $m_4 = k_5 (x_2 - x_3)$ $m_5 = k_6 (x_2 - x_3)$

 m_{3} - m_{3

 $m_3 \dot{n}_3 = f_3 - k_3 x_3 + k_3 x_2 - c_3 \dot{x}_3 + c_3 \dot{x}_2$ Equation (2) \Rightarrow

m, n = f1-K124-K224+K282-C124-C224+C282

+ 62 x2-M

$$(21-n+1) = 21-n+(h) 21-n$$

$$(21-n+1) = 21-n+1 + h 21-n$$

$$(21-n+1) = \frac{1}{m_1} (4-k_1 21-n - k_2 21-n + k_2 21-n - k_3 21$$

numerical solution (Eulers nothed)