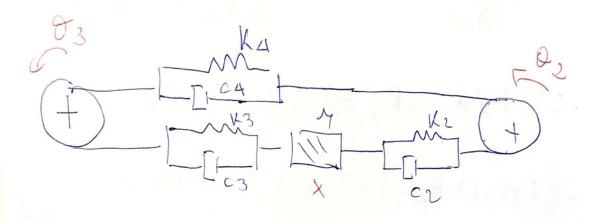
MODELLO ASSEY 4-602

=) 2° PAME SIMILE ALL'ASSEX ...



$$V = K_{2}(R) \cdot (X - \theta_{2}R_{3})^{2} + K_{3}(x) \cdot (X - \theta_{3}R_{3})^{2} + K_{4}(R_{3}\theta_{2} - R_{3}\theta_{3})^{2}$$

$$D = C_2(x) \left[\dot{x} - \dot{\theta}_2 f_3 \right]^2 + C_3(x) \left(\dot{x} - \dot{\theta}_3 f_3 \right)^2 + C_4 \left(f_3 f_2 - f_3 f_3 \right)^2$$

$$\frac{\partial T}{\partial x} = 0$$
 $\frac{\partial T}{\partial x} = M \dot{x}$ $\frac{\partial I}{\partial t} \left(\frac{2T}{\partial x} \right) = M \dot{x}$

$$\frac{\partial U}{\partial x} = 2 k_2 (x - \theta r R_3) + 2 k_3 (x - \theta g R_3)$$

$$\frac{\partial \mathcal{L}}{\partial x} = \frac{2}{2} \left(\hat{\mathbf{x}} - \hat{\mathbf{\theta}}_{2} \hat{\mathbf{r}}_{3} \right) + 2 \left(3 \left(\hat{\mathbf{x}} - \hat{\mathbf{\theta}}_{3} \hat{\mathbf{r}}_{3} \right) \right)$$

$$\frac{\partial \mathcal{L}}{\partial x} = 2 \left(2 \left(\hat{\mathbf{x}} - \hat{\mathbf{\theta}}_{2} \hat{\mathbf{r}}_{3} \right) + 2 \left(3 \left(\hat{\mathbf{x}} - \hat{\mathbf{\theta}}_{3} \hat{\mathbf{r}}_{3} \right) \right)$$

$$\frac{1}{2} \frac{1}{2} \frac{1}{2} = 0$$

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$$\frac{\partial D}{\partial \theta_2} = -2 \left(2 R_3 \left(\dot{\chi} - \theta_2 R_3 \right) + 2 \left(2 R_3 \left(R_3 \dot{\theta}_2 - R_3 \dot{\theta}_3 \right) \right)$$

$$2 \int_{P_3} \dot{\theta}_2 + 2^{\circ} \left[- k_2 k_3 (x - \theta_2 k_3) + k_4 k_3 (k_3 \theta_2 - k_3 \theta_3) \right] = 0$$

$$- k_2 k_3 (x - \theta_2 k_3) + (4 k_3 (k_3 \theta_2 - k_3 \theta_3)) = 0$$

$$\frac{\partial T}{\partial \theta_3} = 0 \quad \frac{\partial T}{\partial \dot{\theta}_3} = 25p_3\dot{\theta}_3 \quad \frac{\partial}{\partial t} \left(\frac{\partial T}{\partial \theta_3}\right) = 25p_3\dot{\theta}_3$$

$$\frac{\partial U}{\partial \theta_3} = -2K_3R_3(X - \theta_3R_3) - 2K_4(R_3\theta_2 - R_3\theta_3)$$

$$\frac{\partial D}{\partial D} = -2C_3 R_3(\dot{x} - \dot{D}_3 R_3) - 2C_4 R_3(k_3 \dot{D}_2 - k_3 \dot{D}_2)$$

$$\frac{25p_{3}\hat{\theta}_{3}^{2}+20\left[-K_{3}R_{3}(x-\theta_{3}R_{3})-K_{4}[R_{3}\theta_{2}-R_{3}\theta_{3})\right]}{-C_{3}R_{3}(x-\theta_{3}R_{3})-C_{4}[R_{3}\theta_{2}-R_{3}\theta_{3})}=0$$

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$$\theta_{2}^{3}(25p_{3}+5p_{2})+20$$
 $\frac{-k_{2}k_{3}(x-\theta_{1}k_{3})+k_{4}k_{3}(k_{3}\theta_{2}-k_{3}\theta_{3})}{-Gk_{3}(x-\theta_{1}k_{3})+C4k_{3}(k_{3}\theta_{2}-k_{3}\theta_{3})}$

$$\frac{\partial^{2}}{\partial x^{2}} \left(25 \rho_{3} \right) + 2 \circ \left[\frac{-k_{3} \Omega_{3}(x - \theta_{3} \Omega_{3}) - k_{4} \Omega_{3}(R_{3} \theta_{2} - R_{3} \theta_{3})}{-C_{3} \Omega_{3}(x - \theta_{3} \Omega_{3}) - C_{4} R_{3}(R_{3} \theta_{2} - R_{3} \theta_{3})} \right] = 0$$

$$\tilde{X}(M) + 2 \cdot \left[\frac{K_3(X - \theta_3R_3) + K_2(X - \theta_2R_3)}{+C_3(X - \theta_3R_3) + C_2(X - \theta_2R_3)} \right] = \alpha C_m$$

FORMA MATRICIALE

$$M = \begin{bmatrix} 3p_1 + 5m & 0 & 0 & 0 \\ 0 & 8p_3 + 5p_2 & 0 & 0 \\ 0 & 0 & 25p_3 & 0 \\ 0 & 0 & 0 & M \end{bmatrix}$$

$$\begin{cases} \frac{1}{42}R_{1}^{2}K_{1} & -2R_{1}K_{1}R_{2} & 0 & 0 \\ -2R_{2}K_{1}R_{1} & 2K_{2}R_{3}^{2} + 2K_{4}R_{3}^{2} + 2R_{2}^{2}K_{1} & -2K_{4}R_{3}^{2} & -2K_{2}R_{3} \\ -2K_{2}R_{3}R_{3}^{2} & 2K_{3}R_{3}^{2} + 2K_{4}R_{3}^{2} & -2K_{3}R_{3} \\ 0 & -2K_{2}R_{3} & -2K_{3}R_{3} & 2K_{3} + 2K_{2} \\ 0 & -2K_{2}R_{3} & -2K_{3}R_{3} & 2K_{3} + 2K_{2} \end{aligned}$$