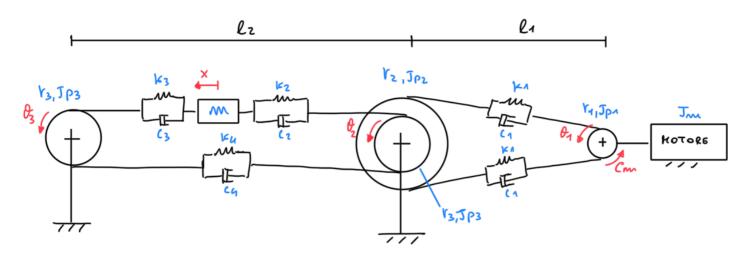
· Asse x



$$T = \frac{1}{2} \int_{0}^{1} \int_$$

$$O_{2}: \int Jp_{2} \dot{O}_{2} + Jp_{3} \dot{O}_{2} + K_{2}(O_{2}V_{3} - x)V_{3} + C_{2}(\dot{O}_{2}V_{3} - x)V_{3} + K_{4}(O_{3}V_{3} - O_{2}V_{3})(-V_{3}) + C_{4}(\dot{O}_{3}V_{3} - \dot{O}_{2}V_{3})(-V_{3}) + 2K_{4}(O_{4}V_{4} - O_{2}V_{2})(-V_{2}) + 2C_{4}(\dot{O}_{4}V_{4} - \dot{O}_{2}V_{2})(-V_{2}) = 0$$

$$\bar{\chi} = \begin{bmatrix} 01 \\ 02 \\ 03 \\ \chi \end{bmatrix}$$
 $\bar{\chi} = \begin{bmatrix} 01 \\ 02 \\ 03 \\ \dot{\chi} \end{bmatrix}$

+

$$M\ddot{X} + K\bar{X} + C\dot{X} = \bar{T}_{m}$$

[h]

$$\begin{bmatrix} 2 Y A^{2} & k_{1} & -2 Y A V_{2} & k_{4} & 0 & 0 \\ -2 Y A V_{2} & k_{1} & 2 Y z^{2} & k_{1} & 4 Y z^{2} & (k_{2} + k_{4}) & -Y_{3}^{2} & k_{4} & -Y_{3} & k_{2} \\ & & -Y_{3}^{2} & k_{4} & & Y_{3}^{2} & (k_{3} + K_{4}) & -Y_{3} & k_{3} \\ 0 & & & -Y_{3} & k_{2} & & -Y_{3} & k_{3} & k_{2} + K_{3} \end{bmatrix}$$

 $\frac{\lambda}{}$ +

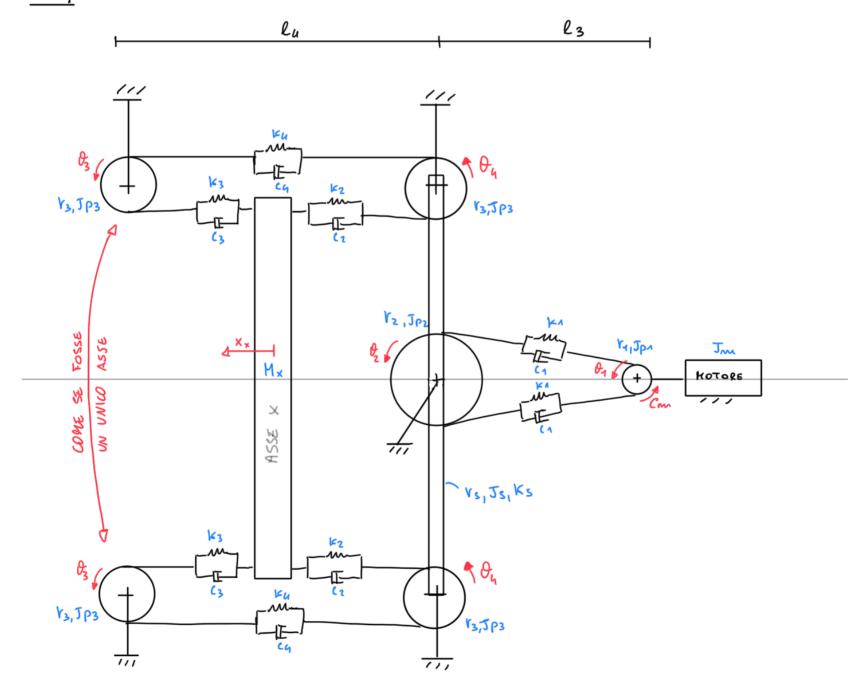
= Tm

[k]

$$\begin{bmatrix}
2 Y A^{1} & C A & -2 Y A Y_{2} & C A & 0 & 0 \\
-2 Y A Y_{2} & C A & 2 Y_{2}^{1} & C A_{1} & Y_{3}^{2} & (C_{2} + C_{6}) & -Y_{3}^{2} & C A_{1} & -Y_{3} & C_{2} \\
& - Y_{3}^{1} & C A & Y_{3}^{2} & (C_{3} + C_{4}) & -Y_{3} & C_{3} & C_{2} + C_{3}
\end{bmatrix}$$

[c]

· Asse y



$$U=2\left[\frac{1}{2} \text{ Ka} \left(\frac{\theta_{1} \text{Va}-\theta_{2} \text{Va}}{2}\right)^{2}\right] + \frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \left[\frac{1}{2} \text{ Ka} \left(\frac{\theta_{1} \text{Va}-\text{Va}}{2}\right)^{2} + \frac{1}{4} \frac{1$$

$$T = \frac{1}{2} \text{ Jm} \dot{\theta} \dot{\eta}^{2} + \frac{1}{2} \text{ Jp} \dot{\eta} \dot{\eta}^{2} \dot{\eta}^{2} + \frac{1}{2} \text{ Jp} \dot{\eta}^{2} \dot{\eta}^{2} \dot{\eta}^{2} \dot{\eta}^{2} \dot{\eta}^{2} + \frac{1}{2} \text{ Jp} \dot{\eta}^{2} \dot{\eta}^{2}$$

$$\begin{array}{l} \theta_{4}: \\ \theta_{2}: \\ \end{array} \\ \begin{array}{l} \int_{A} \sin^{2} x_{1} + \int_{A} \cos^{2} x_{2} + \int_{A} \sin^{2} x_{3} + \int_{A} \cos^{2} x_{2} + \int_{A} \cos^{2} x_{3} + \int_{A} \cos^{2}$$

$$\begin{bmatrix}
T_{M} + J_{P1} & O & O & O & O \\
O & J_{P2} + J_{S} & O & O & O \\
O & O & 2J_{P3} & O & X + O
\end{bmatrix}$$

$$O & O & O & M_{K}$$

[M]

$$\begin{bmatrix} 2 & Y_{1}^{2} & K_{1} & -2 & K_{1} & Y_{1} & Y_{2} & 0 & 0 & 0 \\ -2 & Y_{1} & Y_{2}^{2} & K_{1} & + & Y_{3}^{2} & K_{5} & 0 & - & Y_{3}^{2} & K_{5} & 0 \\ 0 & 0 & 2 & Y_{3}^{2} & (K_{3} & + & K_{4}) & -2 & Y_{3}^{2} & K_{4} & -2 & Y_{3}^{2} &$$

0 9 -2Y3K3 -2Y3K2 2K2+2K3

[k]

 $\begin{bmatrix} 2 & Y_{1}^{2} & (A_{1} & -2 & (A_{1}^{2} Y_{1}^{2} Y_{2}^{2}) & O & O & O \\ -2 & Y_{1}^{2} & (A_{1} & 2 & Y_{2}^{1} & (A_{1}^{2} Y_{3}^{2}) & O & -1 & Y_{3}^{2} & (A_{2}^{2} & A_{3}^{2}) & O & O \\ O & 2 & 2 & Y_{3}^{2} & (A_{3}^{2} & (A_{1}^{2} & A_{2}^{2}) & A_{3}^{2} & A_{3}^$

[c]