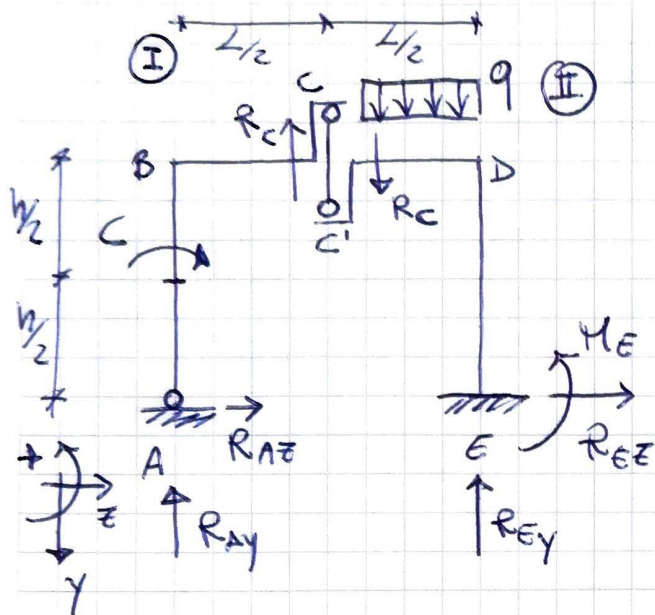


Esercizio ① - Problema statico



I trauco

$$\downarrow) -R_{Ay} - R_C = 0$$

$$\rightarrow) R_{Ax} = 0$$

$$\curvearrowright) -C + R_C \cdot \frac{L}{2} = 0$$

II trauco

$$\downarrow) +R_C + q \cdot \frac{L}{2} - R_{Ey} = 0$$

$$\rightarrow) R_{Ez} = 0$$

$$\curvearrowright) R_C \cdot \frac{L}{2} + q \cdot \frac{L}{2} \cdot \frac{L}{4} + M_E = 0$$

$$\begin{bmatrix} -1 & 0 & -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{L}{2} & 0 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & \frac{L}{2} & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} R_{Ay} \\ R_{Ax} \\ R_C \\ R_{Ey} \\ R_{Ez} \\ M_E \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \\ -C \\ q \cdot \frac{L}{2} \\ 0 \\ q \cdot \frac{L^2}{8} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\sum \underline{r} + \underline{f} = 0$$