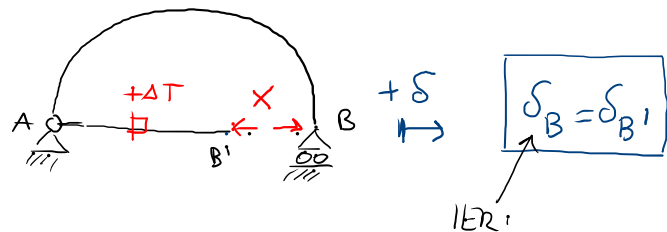
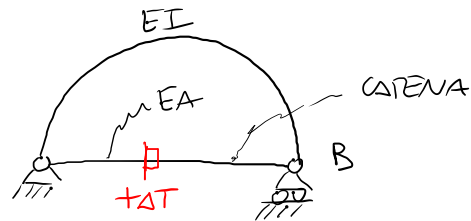


ES

STR. 1 V. IPERST.

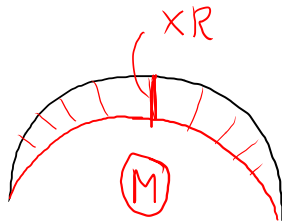
RISOLVERE LA STRUTTURA
TRASCURANDO LA DEFORMABILITÀ
ASSOLLE DELL'ALCO, MA
NON QUELLA DELLA CATENA



$$+ \frac{\pi}{2} \frac{X R^3}{EI} = -X \frac{2R}{EA} + \alpha \Delta T 2R$$

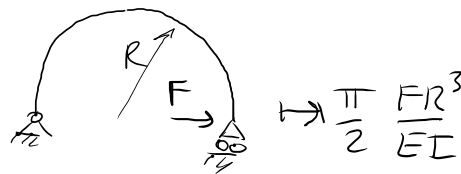
$$X \left(\frac{\pi R^3}{2EI} + \frac{2R}{EA} \right) = \alpha \Delta T 2R$$

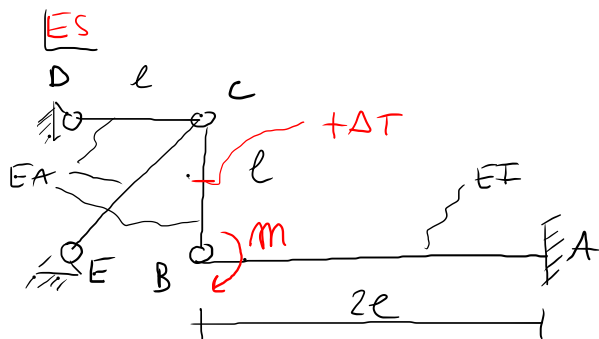
$$X = \frac{\alpha \Delta T 2R}{\left(\frac{\pi R^3}{2EI} + \frac{2R}{EA} \right)} > 0$$



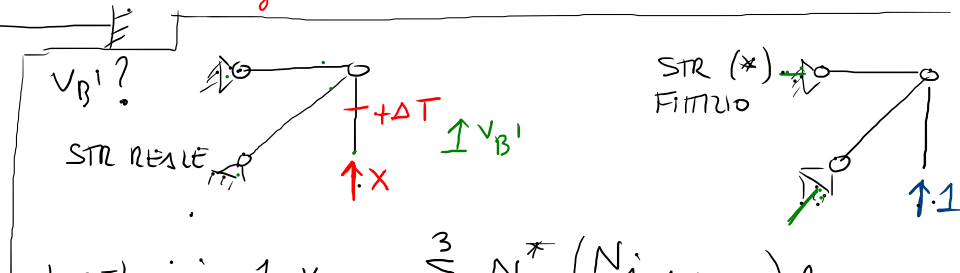
$$N = -X$$

SDC, 7/12/23





vincolo aggiuntivo
che introd 1 g di iprest.



$$L_{ve} = L_{vi}; \quad 1 \cdot V_{B'} = \sum_{i=1}^3 N_i^* \left(\frac{N_i}{EA} + \alpha \Delta T_i \right) l_i$$

EQ DI CONGR. $V_B = V_{B'}$ $??$

SI NOTA CHE $N_i = X N_i^*$

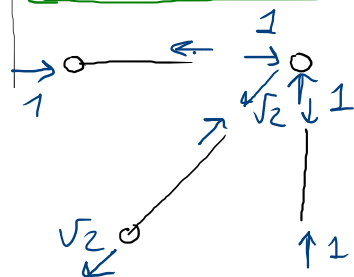
$$V_{B'} = N_{BC}^* \left(\frac{X N_{BC}^*}{EA} + \alpha \Delta T \right) l + N_{CE}^* \frac{X N_{CE}^*}{EA} l \sqrt{2} + N_{CD}^* \frac{X N_{CD}^*}{EA} l$$

$$V_{B'} = -1 \left(-\frac{X}{EA} + \alpha \Delta T \right) l + X \frac{(\sqrt{2})^2}{EA} l \sqrt{2} + \frac{X l}{EA}$$

$$V_{B'} = X \frac{(2\sqrt{2} + 2) l}{EA} - \alpha \Delta T l$$

$$\frac{-X(2l)^3}{3EI} + \frac{m(2l)^2}{2EI} = \frac{X(2\sqrt{2} + 2)l}{EA} - \alpha \Delta T l$$

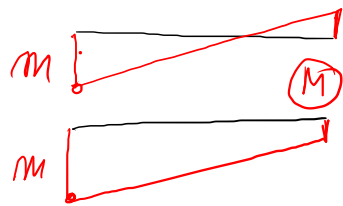
$X > 0$

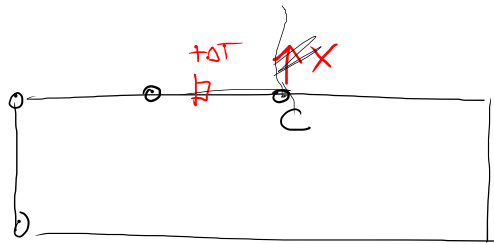
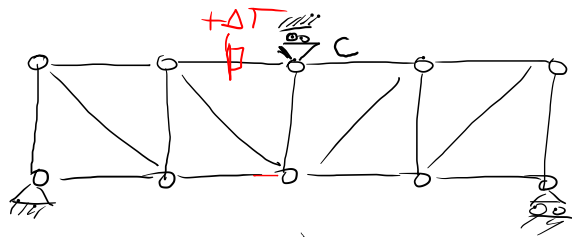


$$N_{BC}^* = -1$$

$$N_{CE}^* = +\sqrt{2}$$

$$N_{CD}^* = -1$$





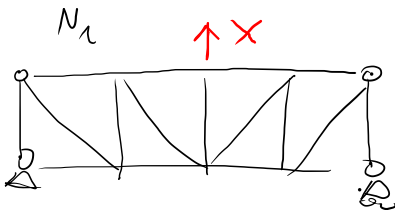
$$+\uparrow v_c = 0$$

$$v_c(\Delta T) + v_c(X) = 0 \quad [X < 0]$$

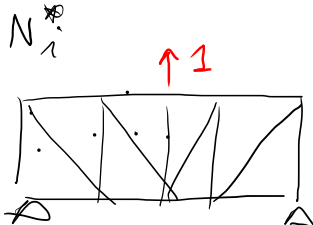
1681

$$+ \Delta T l + \dots$$

$$v_c(X) = \sum_{i=1}^{N_A} N_i^* \frac{N_i l_i}{EA}$$



SM NEOLC



SM FIMZIA

SCH. GGLGL

$$v_c(X)$$