$$S = \frac{F}{EA}L \Rightarrow F = EA\frac{5}{L}$$

$$d\mathcal{L} = F dS = EA\frac{5}{L}dS$$

$$\mathcal{L} = \int_{0}^{S} EA\frac{5}{L}dS = \frac{1}{2}EA\frac{5}{L}S$$

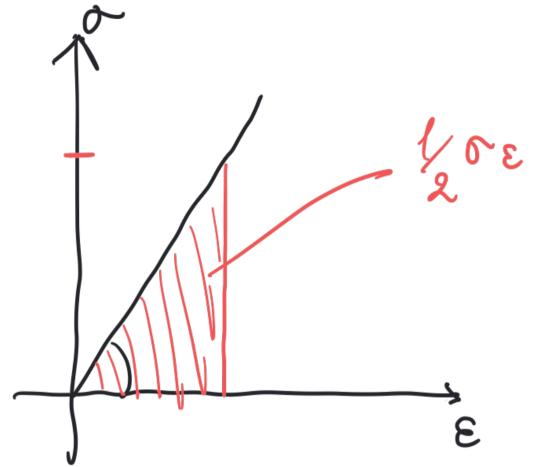
$$\mathcal{L} = \frac{1}{2}FS = \frac{1}{2}\frac{F^{2}}{EA/L} = \frac{1}{2}\frac{EA}{L}S^{2}$$

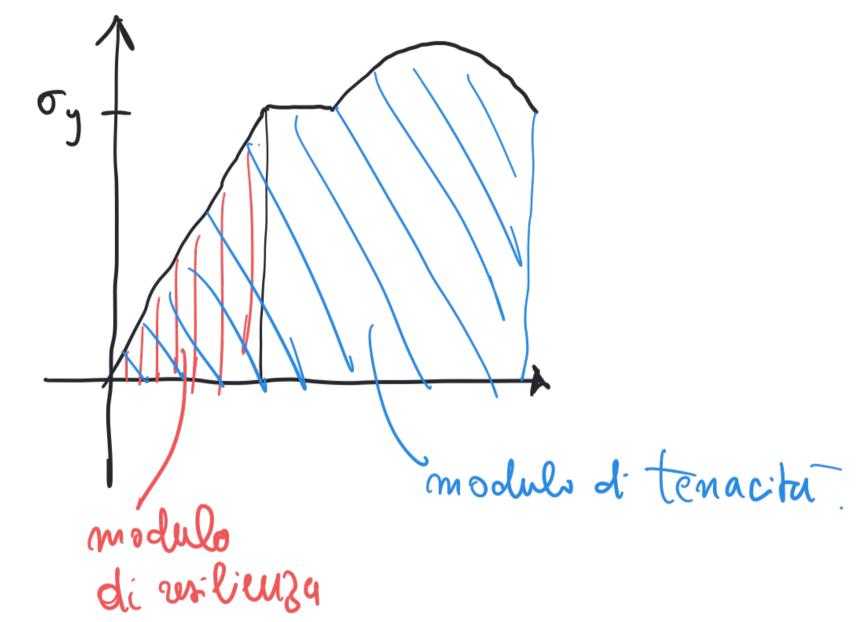
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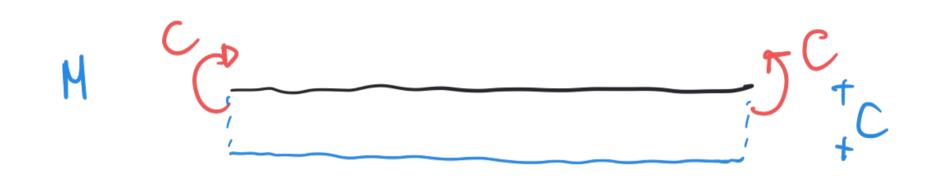
$$\frac{L}{V} = \frac{L}{AL} = \frac{1}{2} \frac{N}{A} \varepsilon = \frac{1}{2} 6 \varepsilon = \frac{1}{2} \frac{\sigma^2}{\varepsilon^2} \frac{1}{2} \varepsilon \varepsilon^2$$







H; 7.5



-DA C

$$\vartheta^{B} - \vartheta^{V} = F \Gamma$$

$$k = \frac{1}{\rho} = \frac{N}{SI} = \frac{C}{SI}$$

 $d\mathcal{L} = Cd\partial_B - Cd\partial_A$ 

Energia flessionale per unità d'lemgheura.

Nel caro generale

$$\mathcal{L}_{int} = \int_{0}^{L_{1}} N\epsilon + \int_{2}^{L} Nk) dx = \int_{0}^{L_{1}} \left( \frac{N^{2}}{2} + \frac{N^{2}}{6L} \right) dx$$

$$= \int_{0}^{L_{1}} \left( \frac{1}{2} + \frac{$$

Per un corps tridimentionale B

$$\mathcal{L} = \frac{1}{2} F v(L) = \frac{1}{2} \int_{EI}^{L} dx = \frac{1}{2EI} F^{2} \int_{0}^{L} (L-x)^{2} dx = \frac{1}{3} \frac{FL^{3}}{EI}$$

$$M(\alpha) = -F(L-x) \Rightarrow v(L) = \frac{1}{3} \frac{FL^{3}}{EI}$$

$$\mathcal{A}(L) \geq ?$$

$$\mathcal{L}_{int}$$

$$\mathcal{$$

$$\vartheta(L) = ?$$

$$2^{Viul} = \int_{0}^{L} Mk = \int_{0}^{L} \frac{dx}{EI} = \int_{0}^{L} \frac{dx}{EI}$$

$$= -\frac{\overline{CF}}{EI} \int_{0}^{L} (L-x) dx = -\overline{C} \frac{1}{z} \frac{FL^{2}}{EI}$$

JF JF

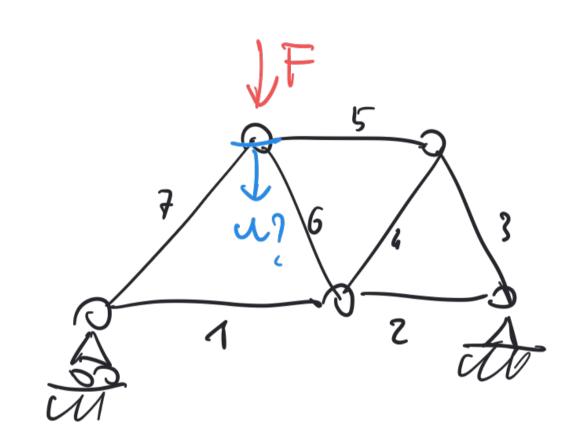
$$\partial(L) = \partial(0) + \int \frac{du}{dx} dx = \int \frac{M}{6I} dx$$

$$= \frac{1}{6I} \int (-F(L-x)) dx = -\frac{1}{2} FL^{2}/6I$$

$$Z_{Viut} = \int \frac{M}{6I} dx = \int \frac{L}{6I} - \frac{F(L-2)}{6I} dx$$

$$= -\frac{CF}{6I} \int (L-x) dx = -\frac{C}{2} \frac{1}{6I} \frac{FL^{2}}{6I}$$

## TRAVATURE RETICOLAR!



$$1/2 \text{ Fo} = \sum_{i=1}^{7} \int_{0}^{L_{i}} \frac{1}{2} \sum_{i=1}^{N_{i}} \frac{1}{2} \sum_{i=$$