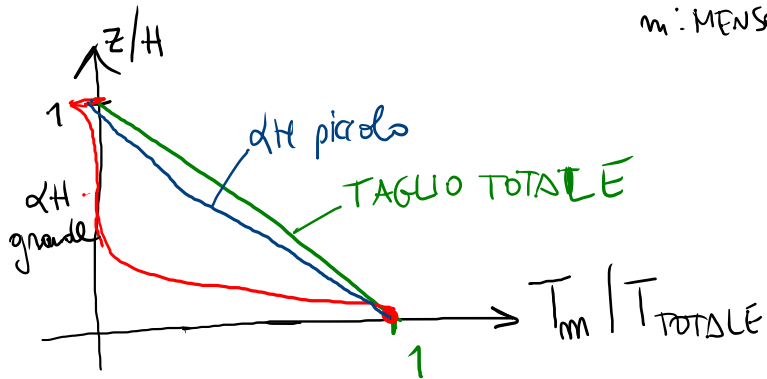
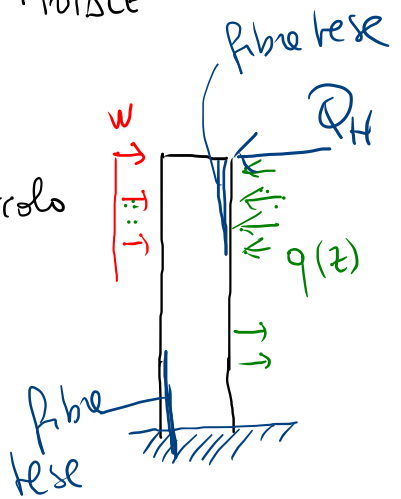
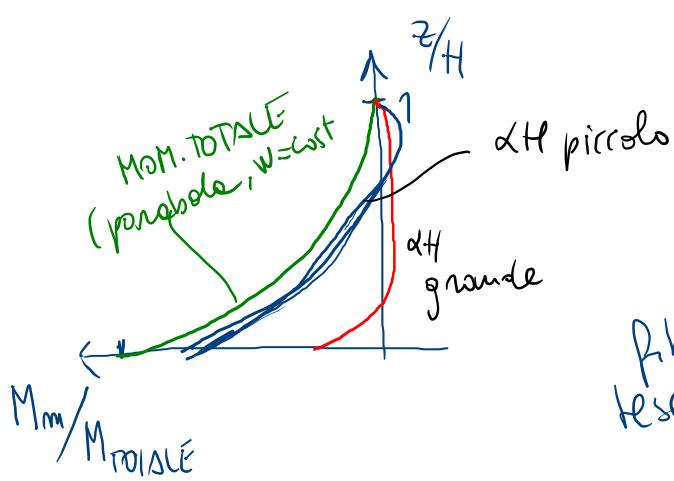
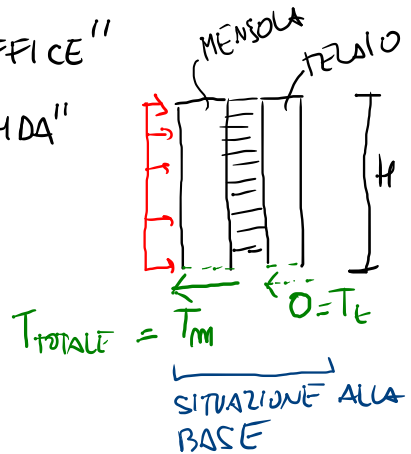


COMMENTO GRAFICI M, T INTERAZIONE MENSOLO - TRALICIO
 m : MENSOLO EI ; t : TRALICIO (MENSOLO GA)

27/04/23



αH grande > 10 : MENSOLO "SOFFICE"
 αH piccolo < 1 : "RIGIDA"



FORZE ORIZZONTALI TRALICIO EQUILIBRATE

$$Q_H + \int_0^H q(z) dz = 0$$

osservo che: $M_m(z) + M_t(z) = -w \frac{(H-z)^2}{2}$; $T_m(z) + T_t(z) = w(H-z)$

ALCUNE FUNZIONI SOLUZIONI.

$$M_m(z) = -w \left[\frac{H}{\alpha} \left(\tanh \alpha H \cosh \alpha z - \sinh \alpha z \right) + \frac{1}{\alpha^2} \left(\frac{\cosh \alpha z}{\cosh \alpha H} - 1 \right) \right]$$

$$T_m(z) = w \left[H \left(\cosh \alpha z - \tanh \alpha H \sinh \alpha z \right) - \frac{1}{\alpha} \left(\frac{\sinh \alpha z}{\cosh \alpha H} \right) \right]$$

$$y(z) = \frac{wH^4}{EI} \left[\frac{1}{(\alpha H)^4} \left[\frac{\alpha H \sinh \alpha H + 1}{\cosh \alpha H} (\cosh \alpha z - 1) - \alpha H \sinh \alpha z + (\alpha H)^2 \left[\frac{z}{H} - \frac{1}{2} \left(\frac{z}{H} \right)^2 \right] \right] \right]$$