

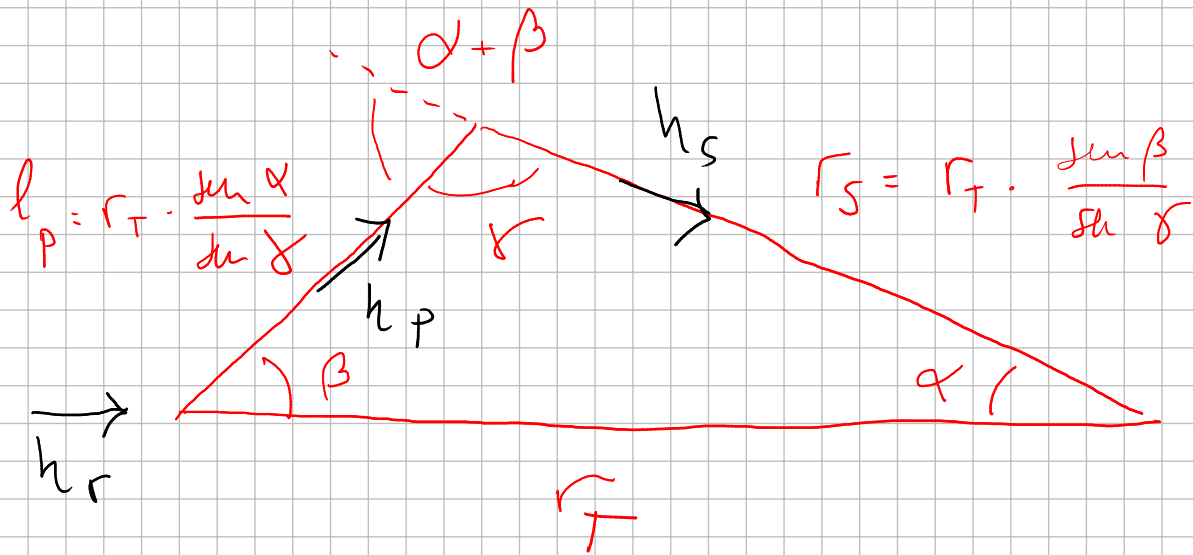
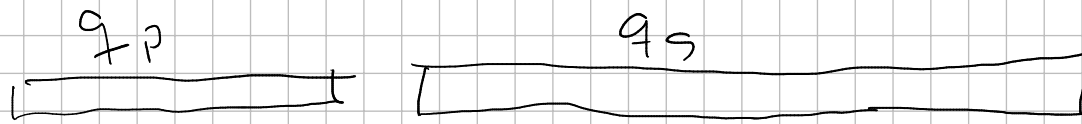
$$\left. \begin{aligned} 2 h_p \cdot \cos \beta &= h_r \\ 2 h_p \cdot \cos (\alpha + \beta) &= h_s \end{aligned} \right\} \begin{aligned} h_p &= \frac{h_r}{2 \cos \beta} \\ h_s &= h_r \cdot \frac{\cos (\alpha + \beta)}{\cos \beta} \end{aligned}$$

En el caso particular de la fig 12:

$$\alpha = 15, \beta = 30; h_r = 23'6;$$

$$h_p = 23'6 \cdot \frac{1}{2 \cdot \cos 30} = 13'6 \text{ OK}$$

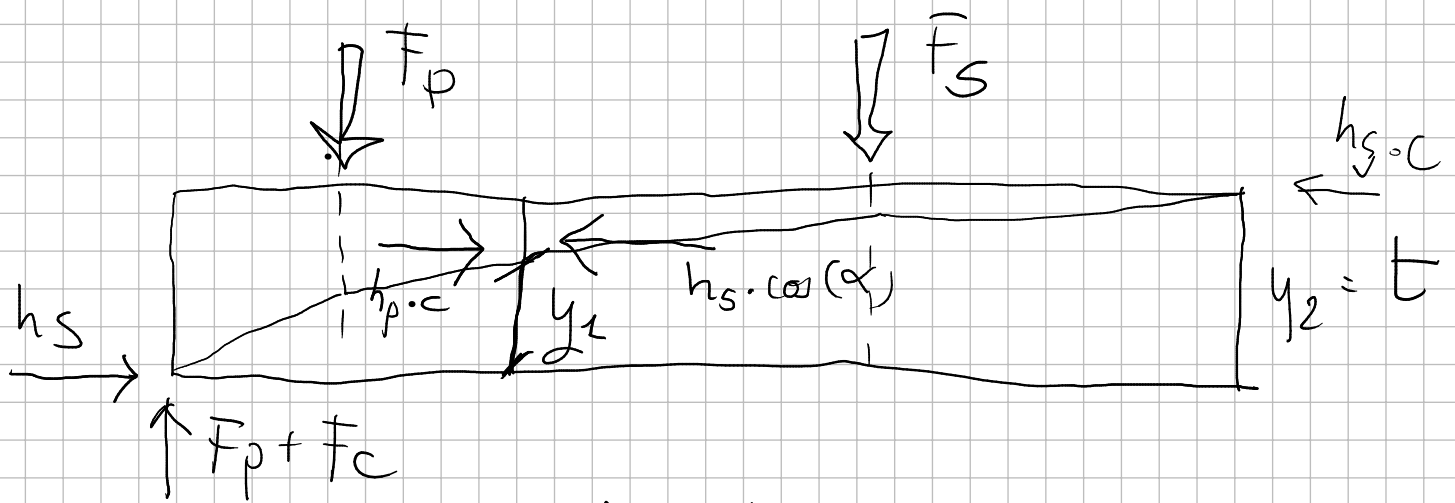
$$h_s = 23'6 \cdot \frac{\cos (45)}{\cos (30)} = 19'26 \text{ OK}$$



$$l_{px} = l_p \cdot \cos \beta ; r_{sx} = r_s \cdot \cos \alpha$$

$$F_p = l_{px} \cdot q_p ; F_s = r_{sx} \cdot q_s$$

$$M_{p0} = F_p \cdot \left(r_{sx} + \frac{l_{px}}{2} \right) ; M_{s0} = F_s \cdot \frac{r_{sx}}{2}$$



$$- (F_p + F_c) \cdot l_{px} + F_p \frac{l_p}{2} + h_s \cdot y_1 = 0$$

$$y_1 = \frac{l_{px} (F_c + F_p/2)}{h_s}$$

$$M_p + M_s + \left(h_s \cdot \cos \alpha - h_p \cdot \cos \beta \right) \cdot y_1 - \left(F_p + F_c \right) r_t \Bigg\} = 0$$

$$+ h_s \cdot \cos \alpha \cdot t$$

$$h_p = \frac{h_r}{2 \cos \beta}$$

$$h_s = h_r \cdot \frac{\cos(\alpha + \beta)}{\cos \beta}$$

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