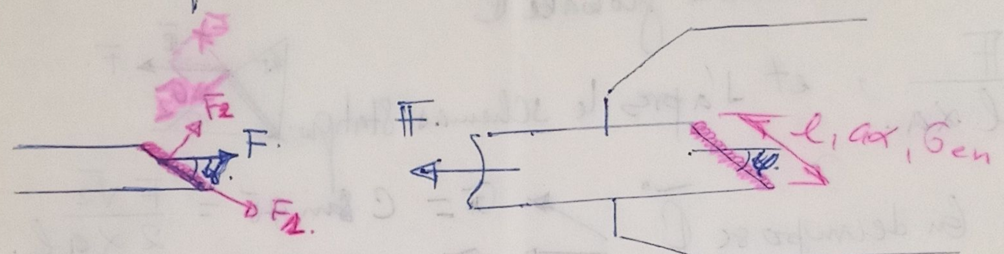
$$0 + 1{,}8\left(0 + \frac{F^2}{\alpha^2 a^2 l^2}\right) \le \sigma_{en}^2$$

$$\to \sqrt{1{,}8}\,\frac{F}{\alpha a l} \le \sigma_{en} \to \boxed{\frac{F}{0{,}75\,\alpha a l} \le \sigma_{en}}$$

vérifa satisfai pour un corton la latérale

⑥- Corton oblique.



donc $F_1 \to \tau_1 \longrightarrow \tau_{\parallel} = \frac{F_1}{l a \alpha} = \frac{F\cos\varphi}{l a \alpha}$

$F_2 \to \tau_2 = \frac{F_2}{l \alpha a} = \frac{F\sin\varphi}{l a \alpha}$

donc $\tau_2 \begin{cases} \nearrow \sigma = \tau_2 \sin 45^\circ = \dfrac{F\sin\varphi\sqrt{2}}{2\,l a \alpha} \\ \to \tau_{\perp} = \tau_2 \cos 45^\circ = \dfrac{F\sin\varphi\sqrt{2}}{2\,l a \alpha} \\ \searrow \tau_{\parallel} = 0. \end{cases}$

$$\sigma^2 + 1{,}8\left[\tau_{\parallel}^2 + \tau_{\perp}^2\right] \le \sigma_{en}^2.$$

$$\frac{F^2}{2 l^2 a^2 \alpha^2}\left[2{,}8\sin^2\varphi + 2{,}8\cos^2\varphi + 0{,}8\cos^2\varphi\right] \le \sigma_{en}^2$$

$$\frac{F^2}{2 l^2 a^2 \alpha^2}\left[2{,}8 + 0{,}8\cos^2\varphi\right] \le \sigma_{en}^2$$

$$\frac{F^2}{l^2 a^2 \alpha^2}\left[1{,}4 + 0{,}4\cos^2\varphi\right] \le \sigma_{en}^2$$

$$\to \boxed{\sqrt{1{,}4 + 0{,}4\cos^2\varphi}\;\frac{F}{l a \alpha} \le \sigma_{en}}$$

le terme $\sqrt{1{,}4+0{,}4\cos^2\varphi}$ est remplacer par $\frac{1}{(0{,}75+0{,}1\sin\varphi)}$.

donc la formule deviens $\boxed{\frac{F}{l a \alpha\,(0{,}75+0{,}1\sin\varphi)} \le \sigma_{en}}$.

pour les cortons latéraliques.