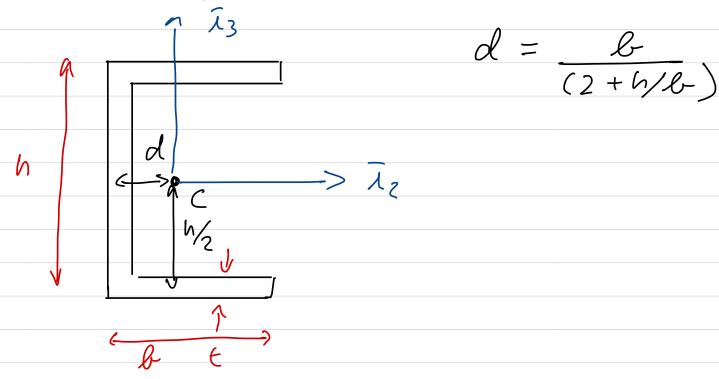


Esemple: (ansides a "C" Shoped thin'- walled section subjected to a oheer force Uz (V2=0). Find f.



$$f(s) = C + Q_3 H_{23} - Q_2 H_{33} V_3$$

- Q3 H22 - Q2 H22 Y2 DH -> Due to symmetry H23 = 0

$$-) V_2 = 0$$

$$f(s) = C - Q_2(s) V_3$$

$$\frac{1152}{1152}$$

$$H_{22}^{C} = E \left[\frac{\epsilon h^{3}}{12} + 2 \cdot \overline{b} \cdot \frac{k^{3}}{12} + (b \cdot \epsilon) \left(\frac{h}{2} \right) \right]$$

$$- H_{22}^{C} = E \left(\frac{h^{3}t}{12} + \frac{1}{2} \cdot b \cdot \epsilon h^{2} \right)$$

$$h = \frac{\lambda_{3}}{12} \cdot \frac{k^{3}}{12} \cdot$$

$$C_1 = 0$$
 Since $f(s_1 = 0) = 0$
 $Q_2(s_1) = E(+s_1)(h/2)$
 $f(s_1) = -E + s_1h$. V_3

$$f(S_2) = G_2 - Q_2(S_1) \frac{V_3}{HS_2}$$

$$Q_2(S_2) = E(S_2 +) \left(\frac{h}{2} - \frac{S_2}{2}\right)$$

* We must have continuity at the shear flaw!

$$\mathcal{L}(S_1 = \mathcal{L}) = \mathcal{L}(S_2 = 0)$$

$$f(S_2) = C_2 - E(S_2 +) \left(\frac{h}{2} - \frac{S_2}{2}\right) \frac{V_3}{H_{22}^S}$$

$$f(S_2 = 0) = C_2$$

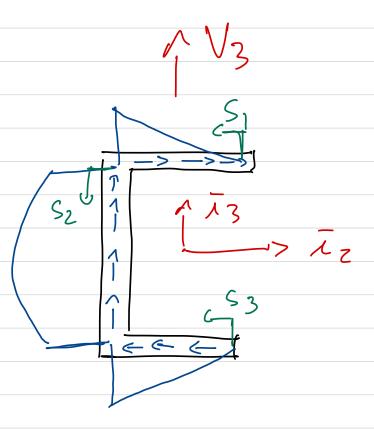
$$f(S_1 = b) = -E + bh \frac{V_3}{2} = C_2$$

$$->f(S_2) = E + U_3 \left(-\frac{gh}{2} - \frac{S_2h}{2} + \frac{S_2^2}{2} \right)$$

$$f(S_3) = C_3 - Q_2(S_3) \frac{V_3}{H_{22}^2}$$

$$Q_2(S_3) = E(+S_3)(-h/2)$$

$$-\lambda f(S_3) = E + S_3 h \frac{V_3}{H_{22}^2}$$



Sonity Check

$$\mathcal{L}(S_2=h)=-\mathcal{L}(S_3=a)$$

$$f(S_3=e) = E + l \cdot h \frac{V_3}{Z}$$

$$f(S_2 = h)$$
 $z \in U_3 \left(-lh - h^2 + h^2 \right)$
 $H_{22} \left(\frac{1}{2} \right)$

$$\frac{E + V_3}{H_{22}} \left(-\frac{l_1 h}{2} \right) = -\frac{E + V_3}{H_{22}} \frac{l_2 h}{2}$$

$$\frac{Chech #2:}{-V_3 = \int_0^h f(S_2) dS_2}$$

$$= \int_{0}^{h} \frac{E + \frac{U_{3}}{H_{22}^{c}} \left(-\frac{\mu h}{2} - \frac{S_{2}h}{2} + \frac{S_{2}^{2}}{2} \right) dS_{2}$$

$$= E \left\{ \frac{V_3}{H_{22}^2} \left[-\frac{h}{2} \right] \right\} - \frac{h}{2} \left[\frac{S_2}{2} \right] - \frac{h}{6} \left[\frac{S_2}{2} \right] - \frac{h}{6} \left[\frac{S_2}{2} \right] \right] = \frac{1}{6} \left[\frac{1}{2} \right] \left[\frac{h}{2} \right] = \frac{1}{6} \left$$

$$-V_3 = -E + \frac{U_2}{H_{22}^2} \left[\frac{eh^2}{2} + \frac{h^3}{12} \right]$$

$$H_{22}^{\zeta} = E \left(\frac{h^{3} + 1 l + h^{2}}{12} \right)$$

$$-V_{3} \stackrel{?}{=} = -E \underbrace{V_{3} \left(\frac{h^{3} + h^{3}}{2} \right)}_{z}$$

$$= \left(\frac{h^{3} + h^{2}}{12} \right)^{-1}$$

$$\int_{0}^{l} L(S_{i}) dS_{i} - \int_{0}^{l} L(S_{3}) dS_{3} = V_{2} = 0$$