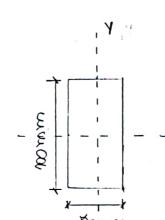
Eluna: Galdriella da C. Coome - PF-2000. 2

Questão 3

de Jaconnos uma analise de I spora a reçàs

: lossermart



 \sim_{V} exic eleganat me \sim_{V}

incient els etnemenn «xI.

Ty = 100 (20)3

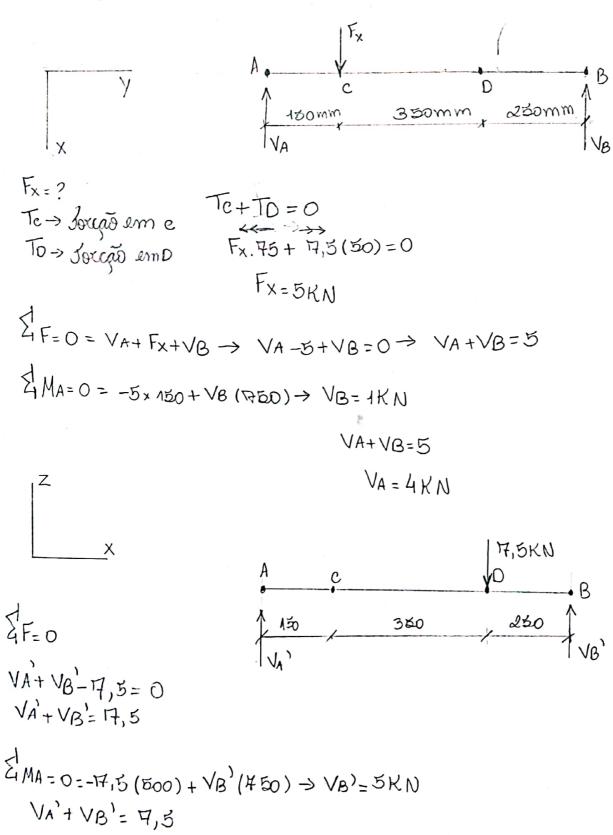
Iv=1041666,64 mm4

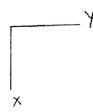
Ix = 4166666,67mm4

- · Como Per e I vação diretempente proporcionais, o menor I operara a menor Per, lego, a flambagem ocorre primeiro quando I=Iy.
- · K=1 → Sixtulada
- $b = 3.6 \text{m} = 3.6 \times 10^3 \text{mm}$
- · E=41,0GPa, → E= 11×103MPa

a acteul

٧n) = 2,3KN



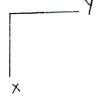


C

345

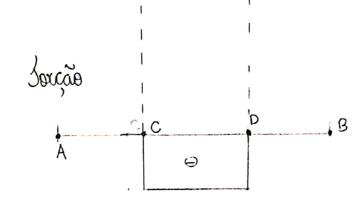
(250

1250









Somando es momentos em [x 2 2x:

Mc=((450)2+(345)2)2 → Mc=450,40KNmm

Mc=((250)2+(1200)2)22 → Mc=450,40KNmm

Como Mo> Mc, o ponto mais exitico é D.

Jendo:

$$M = 1274, 45K Nmm$$

$$C = \left(\frac{2}{11 \text{ Gadm}} \sqrt{M^2 + T^2}\right)^{\frac{1}{3}}$$

$$\text{Gadm} = 80MPa}$$

$$C = \left(\frac{2}{\pi 80} \sqrt{(1274, 75 \times 10^{3})^{2} + (375 \times 10^{3})^{2}}\right)^{\frac{1}{3}}$$

$$C = 21, 95 \rightarrow C = 22 \text{ mm}$$

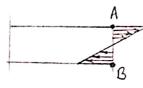
$$d = 2C \rightarrow d = 44 \text{ mm}$$



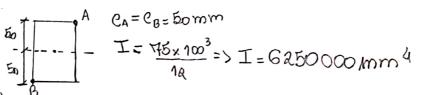
Distribuição de torios.

· (assart) 27 rad abaruas T.

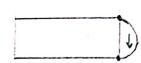
: xetel atnementa place of course







.T eausado por F1:



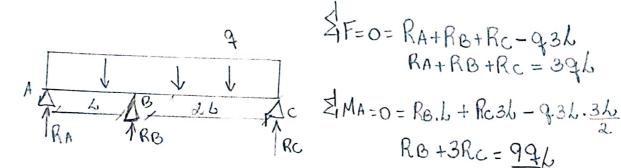
16 = 8 = 0

M=F1×900 > 3564KNmm

Quando &=0, Tx eTy são O1e O2, portanto, em B;

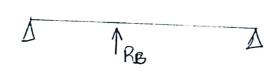
J1= 0, 704 MB

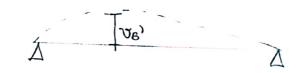
Questão 4





Deformadas:





9B+19B'=0

De acordo com a tabela de inclinações e deslocamentos dispo mirvel no Hibbeler:

$${}^{6}B = -\frac{9L}{24EI}((3L)^{\frac{3}{2}}\lambda(3L)L^{\frac{3}{2}} + (3L)^{3} \rightarrow -\frac{9L}{24EI}(48L^{\frac{3}{2}}) \rightarrow -\frac{29L}{EI}$$

52
$$R_{B} + 3R_{C} = \frac{99L}{2}$$
 $3R_{C} = \frac{99L}{2} - \frac{99L}{2}$
 $R_{A} = \frac{39L}{2} - \frac{99L}{2}$
 $R_{A} = \frac{39L}{2} - \frac{99L}{2}$
 $R_{A} = \frac{39L}{2} - \frac{99L}{2}$