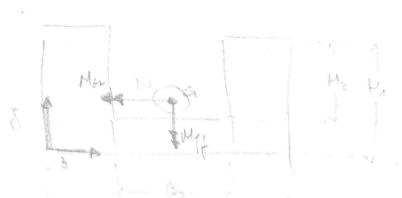


Esercizio 2



N=110KN=110000N B₁=180mm B₂-20mm H₁-80mm H₂=60mm

Colcolo del beicerlino

S: considerans due oure: piero (B1.H1) e viola (B2.H2)

 $\frac{2\alpha = 2\alpha_1 \cdot A_1 - 2\alpha_2 \cdot A_2}{A_1 - A_2} = \frac{\frac{B_1}{2} \cdot (B_1 \cdot H_1) - \frac{B_1}{2} \cdot (B_2 \cdot H_2)}{A_1 + A_2} = \frac{B_1}{2} \cdot (pn nimelia) (75 min)$

Ja = Jan - An - Jaz · Az = H/2 (BAHA) - [(H/2 - H/2 + H/2) (B2H2)] = 270000 = 34,61 mm

Monneuli d'inersia

 $\widehat{L}_{22} = \widehat{L}_{1} - \widehat{L}_{2} = \left[\frac{\mu_{1}^{3} B_{1}}{12} + (B_{1} \mu_{1})(40 - 34, 61)^{2} \right] - \left[\frac{\mu_{2}^{3} B_{2}}{12} + (B_{2} \mu_{2})(50 - 34, 61)^{2} \right]$ $= 6748625, 2 mm^{4} - 2254778,82 mm^{4} = 4453846,38 mm^{4}$

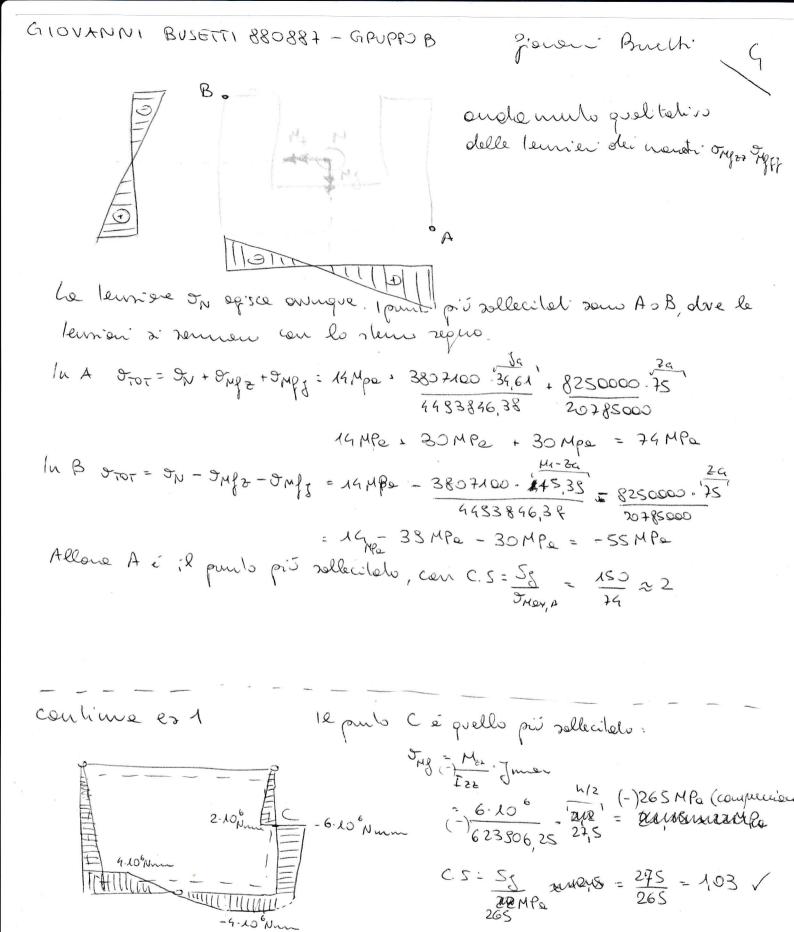
 $f_{3} = 180^{3}.80 - 70^{3}.60 = 20785000 mm⁴$ (beinenhin)

Lo sform manuele eccentrico N viene ricondotto d'herientro ca esquinquedo due monneti flettenti Mez e MII d'retti come in figure l'amodul. 2000: MZE = N. 84Ja = 110000N. 48 mm = 80000000 Nmm

MJ = N. Za = 8250000N

Tenroni : $J_N = \frac{N}{A} = \frac{10000 \, N}{(80.63)(20.63)} = 14,10 \tau 14MPa (+)$

Julie 1885 - 3 = 2 milis = milis - 4



Seriou $\frac{1}{12}$ $\frac{$

GIOVANNI BUSETTI 880887 - GRUPPOB

giover Brueth. 5

Melodo delle diforminien: X: = E: A: (gcosa: +yzendi)

E X: (cosa: +yzendi)

3) Ex: rend: = 2F

() Ex. A () cos 45' + 4 2en 45') cos 45' + EzA () cos 315' + 4 2en 315') cos 315' + EzA () cos 225' + 4 2en 225').

···· Cor 225" + & 4 (8 cos 315"+4 2en 315") · cor 315"= F

1 = A (8 = + M =) = + B = A (9 = + M =) (-12) + B = A (9 = - 4 =) (-12) + B = A (9 = - 4 =) (-12) + B = A (9 = - 4 =) (-12) = F

1) A 52 En 52 (9+4) - E2 (-9+4) [+ E352 (9+4) + E452 (9-4)] = F

A 20 (3-4(-9-4)+=3(9-4-9-4)]=F

 $A \cdot 2g(E_1 + E_3) = F$ $Ag(E_1 + E_3) = F \rightarrow g = \frac{F \cdot R}{A(E_1 + E_3)}$

2 ExA(9\f2+4\f2)\f2+\f2)\f2+\f2\(\f2\)\f2\(\f2

2) A [E1(8+4-8+4) + E3(8+4-8+4)] = 2F

 $\frac{A}{2e} \cdot xy(E_1 + B_3) = 2F$ $y = \frac{2Fe}{A(E_1 + E_3)}$ Allone, con idet ropne,

g= 0,417mm, y= 0,83+=0,834mm spostantidel pub €

GIOVAPPUI BUSETTI BRORRI - GPUPPO B

former Bruth

Sforti d'aqui onle x: = E: A: (0,417 mon cosd: +0,834 mudi)

Aste 1: X, = 200000 · 113,04 (0,417-52+0,83452), J, = ×1 = 167 MPa = 18854,36N

Asle 2: $\times_2 = \frac{200000 \cdot 113.04}{1060, 1} \left(-\frac{\sqrt{2}.0417 + \sqrt{2}.0834}{2}.0834\right) = 6284,38N$ $9_2 = \frac{\times_2}{A} = 55,56256MPa$

Aste 3: $\times_3 = \frac{20000.113,04}{1060,1} \cdot \frac{52}{2} \left(-0,412-0,834\right) = -6600N$ $\frac{3}{4} = \frac{3}{4} = -58MPa$

Asla 4: $\times_4 = \frac{70000.113,04.52}{1060,7} (0,417-0,834) = -2200N$ $\frac{34 - \times_4 = -20MPe}{A}$