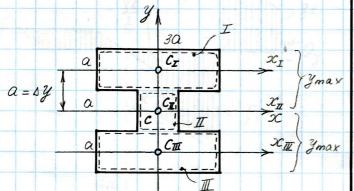


Вичисиить Ух можемо двумя способами:

Разбить сегение на простие ригуры, гих маменты инеруши суммировать:



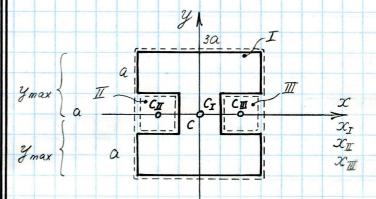
$$J_{x}^{T} = J_{x_{I}}^{T} + A^{T} A y^{2} = \frac{3\alpha \cdot \alpha^{3}}{12} + 3\alpha^{2} \cdot \alpha^{2} = \frac{39}{12} \alpha^{4}$$

$$\mathcal{I}_{X}^{\overline{L}} = \mathcal{I}_{X_{\overline{L}}}^{\overline{L}} = \frac{\alpha \cdot \alpha^{3}}{12} = \frac{\alpha^{4}}{12}$$

$$\mathcal{I}_{X}^{II} = \mathcal{I}_{X}^{I} = \frac{39}{19} \alpha^{4}$$

$$\mathcal{J}_{X} = \mathcal{J}_{X}^{I} + \mathcal{J}_{X}^{II} + \mathcal{J}_{X}^{II} = \frac{39}{12} \alpha^{4} + \frac{\alpha^{9}}{12} + \frac{39}{12} \alpha^{4} = \frac{79}{12} \alpha^{4}$$

Из манента инеризии
списичного сегения вычесть
маненты инеризи вырезов:



$$\gamma_{x}^{I} = \frac{3\alpha \cdot (3\alpha)^{3}}{12} = \frac{81}{12} \cdot \alpha^{4}$$

$$J_X^{II} = \frac{a \cdot a^3}{12} = \frac{a^4}{12}$$

$$J_X = \frac{a \cdot a^3}{12} = \frac{a^4}{12}$$

$$J_{x} = J_{x}^{T} - J_{x}^{T} - J_{x}^{T} = \frac{g_{1}}{12} \alpha^{4} - \frac{\alpha^{4}}{12} - \frac{\alpha^{4}}{12} = \frac{g_{2}}{12} \alpha^{4}$$

$$= \frac{g_{2}}{12} \alpha^{4}$$

Barricience Wx:

$$\overline{W_{X}} = \frac{J_{X}}{J_{Max}} = \frac{79}{12} \alpha^{4} = \frac{79}{12} \cdot \alpha^{4} \cdot \frac{2}{3\alpha} = \frac{79}{18} \alpha^{3}$$