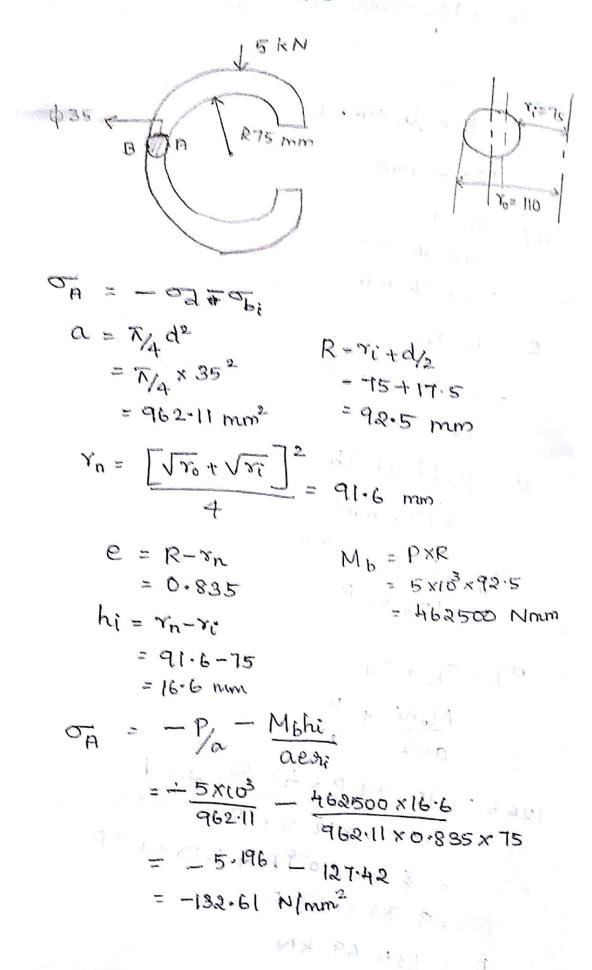
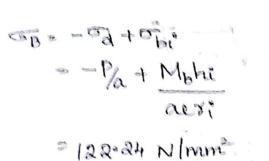


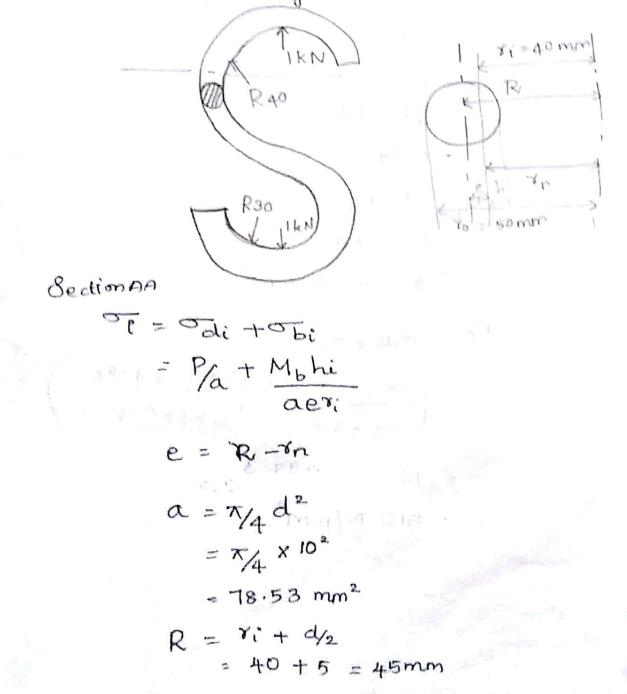
$$\begin{split} \hat{Y}_{n} &= \frac{1}{2} \left(\begin{array}{c} 100 + 35 \right) 130 \\ (100 \times 180 - 35 \times 59) \\ (100 \times 180 - 35 \times 59) \end{array} \ln \left(\begin{array}{c} 180 \\ 50 \end{array} \right) - \left(100 - 35 \right) \\ &= \frac{8715}{125} \times \frac{1}{30} \cdot 3 \cdot 6 - 65 \\ &= 92 \cdot 36 \cdot mn \\ h_{i}^{2} &= \hat{v}_{n} - \hat{v}_{i}^{2} \\ &= 92 \cdot 36 \cdot mn \\ h_{i}^{2} &= \hat{v}_{n} - \hat{v}_{i}^{2} \\ &= 92 \cdot 36 \cdot 50 \\ &= 42 \cdot 36 \cdot mn \\ e &= R - \hat{v}_{n} \\ e &= R - \hat{v}_{n} \\ &= 104 \cdot 56 - 92 \cdot 36 \\ &= 12 \cdot 31 \, mm \\ \Omega &= \frac{1}{2} \left(b_{1} + b_{0} \right) h \\ &= 8775 \, mn^{2} \cdot \\ M_{b} &= P \times R^{2} \\ &= 104 \cdot 56 \, P \\ \widehat{v}_{1} &= \widehat{v}_{h} + \widehat{v}_{h} \\ &= 104 \cdot 56 \, P \\ \widehat{v}_{1} &= \widehat{v}_{h} + \widehat{v}_{h} \\ &= 104 \cdot 56 \, P \\ \widehat{v}_{1} &= \widehat{v}_{h} + \frac{1}{2} \frac{1}{31} \times 50 \\ &= \frac{104 \cdot 56 \, P \times 42 \cdot 36}{8775} + \frac{P}{8775} \\ &= 8 \cdot 200 \, x to^{-1} \, P \\ &= 9 \cdot 33 \times 10^{-1} \, P \\ P &= 135 \cdot 69 \, kN . \end{split}$$

2. Calculate struss at point A & B of a cucular tais shown in figure.





1. A open of link shown in figure is made of stool end of diameter to non Determine The maximum tensile stress for the given cense section.



$$\gamma_{n} = \left[\sqrt{\gamma_{0}} + \sqrt{\gamma_{i}} \right]^{2}$$

$$= \left[\sqrt{50} + \sqrt{40} \right]^{2}$$

$$= \left[4$$

$$= 44.86 \text{ mm}.$$

$$h_{i} = \gamma_{n} - \gamma_{i}$$

$$= 44.86 - 40$$

$$= 4.86$$

$$e = R - v_n$$

= 45 - 44.86
= 0-14

$$M_{b} = P \times R$$

= $1 \times 10^{3} \times 45$
= $45 \times 10^{3} N - mm$.

$$R = \overline{v}_{1} + \frac{d}{2}$$

$$= 30 + 5$$

$$= 30 + 5$$

$$= 35 \text{ mm}$$

$$V_{n} = \left[\sqrt{40 + \sqrt{30}} \right]^{2}$$

$$Y_{n} = \left[\sqrt{40 + \sqrt{30}} \right]^{2}$$

$$= 34 \cdot 82 \text{ mm}$$

$$h_{1} = Y_{n} - Y_{1}$$

$$= 34 \cdot 82 \text{ mm}$$

$$h_{2} = Y_{n} - Y_{1}$$

$$= 35 - 34 \cdot 82$$

$$= 0 - 18$$

$$M_{5} = 1 \times 10^{3} \times 35$$

$$= 35 \times 10^{3}$$

$$T_{1} = \frac{1 \times 10^{3}}{18 \cdot 53} + \left(\frac{35 \times 10^{3} \times 4 \cdot 82}{18 \cdot 53 \times 0 \cdot 19 \times 30} \right)$$

$$= 410 \text{ N[mm^{2}]}$$