

8-73.

The hook is subjected to the force of 80 lb. Determine the state of stress at point *B* at section *a-a*. The cross section has a diameter of 0.5 in. Use the curved-beam formula to calculate the bending stress.

SOLUTION

The location of the neutral surface from the center of curvature of the hook, Fig. *a*, can be determined from

$$R = \frac{A}{\int_A \frac{dA}{r}}$$

where $A = \pi(0.25^2) = 0.0625\pi \text{ in}^2$

$$\int_A \frac{dA}{r} = 2\pi (\bar{r} - \sqrt{\bar{r}^2 - c^2}) = 2\pi (1.75 - \sqrt{1.75^2 - 0.25^2}) = 0.11278 \text{ in.}$$

Thus,

$$R = \frac{0.0625\pi}{0.11278} = 1.74103 \text{ in.}$$

Then

$$r = \bar{r} - R = 1.75 - 1.74103 = 0.0089746 \text{ in.}$$

Referring to Fig. *b*, I and Q_B are computed as

$$I = \frac{\pi}{4} (0.25^4) = 0.9765625(10^{-3})\pi \text{ in}^4$$

$$Q_B = \bar{y}'A' = \frac{4(0.25)}{3\pi} \left[\frac{\pi}{2} (0.25^2) \right] = 0.0104167 \text{ in}^3$$

Consider the equilibrium of the FBD of the hook's cut segment, Fig. *c*.

$$+\circlearrowleft \sum F_x = 0; \quad N - 80 \cos 45^\circ = 0 \quad N = 56.57 \text{ lb}$$

$$+\uparrow \sum F_y = 0; \quad 80 \sin 45^\circ - V = 0 \quad V = 56.57 \text{ lb}$$

$$+\circlearrowleft \sum M_c = 0; \quad M - 80 \cos 45^\circ (1.74103) = 0 \quad M = 98.49 \text{ lb} \cdot \text{in.}$$

The normal stress developed is the combination of axial and bending stress. Thus,

$$\sigma = \frac{N}{A} + \frac{M(R - r)}{A r r}$$

Here, $M = 98.49 \text{ lb} \cdot \text{in.}$ since it tends to reduce the curvature of the hook. For point *B*, $r = 1.75 \text{ in.}$ Then

$$\begin{aligned} \sigma &= \frac{56.57}{0.0625\pi} + \frac{(98.49)(1.74103 - 1.75)}{0.0625\pi (0.0089746)(1.75)} \\ &= 1.48 \text{ psi (T)} \end{aligned}$$

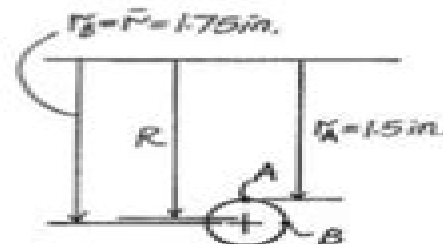
Ans.

The shear stress is contributed by the transverse shear stress only. Thus,

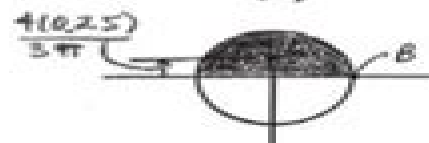
$$\tau = \frac{VQ_B}{Ib} = \frac{56.57 (0.0104167)}{0.9765625(10^{-3})\pi (0.5)} = 384 \text{ psi}$$

Ans.

The state of stress of point *B* can be represented by the element shown in Fig. *d*.



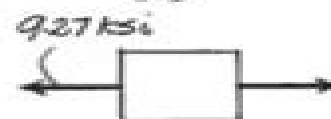
(a)



(b)



(c)



(d)

Ans: $\sigma = 1.48 \text{ psi (T)}, \tau = 384 \text{ psi}$

Solution Manual Popov Mechanics Of Materials

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