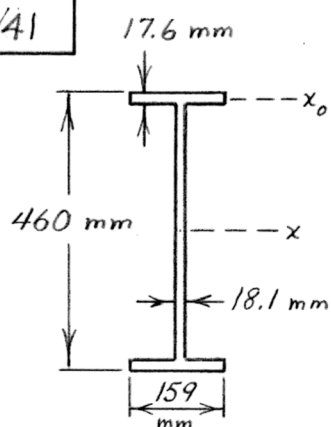


A/41



$$\text{Flanges: } \bar{I}_x = I_{x_0} + Ad^2$$

$$= 2 \left\{ \frac{1}{12} (159)(17.6^3) + 159(17.6) \left(230 - \frac{17.6}{2} \right)^2 \right\}$$

$$= 2 \left\{ 7.22(10^4) + 1.369(10^8) \right\} \text{ mm}^4$$

$$= 2.74(10^8) \text{ mm}^4$$

$$\text{Web: } \bar{I}_x = \frac{1}{12} (18.1)(460 - 2[17.6])^3$$

$$= 1.156(10^8) \text{ mm}^4$$

$$\text{Total } \bar{I}_x = 3.90(10^8) \text{ mm}^4$$

WILEY