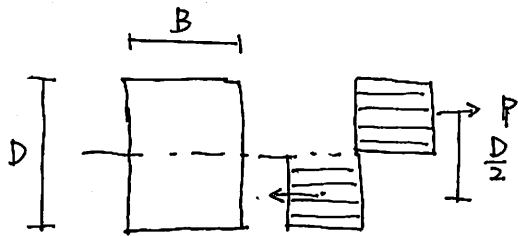


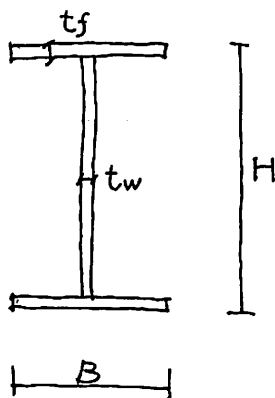
。 塑性断面係数。



$$(B \cdot \frac{D}{2}) \cdot \sigma_y \cdot \frac{D}{2} = M_y.$$

$$\therefore M_y = \left( \frac{BD^2}{4} \right) \sigma_y$$

$$\therefore Z_{py} = \frac{BD^2}{4}$$



77 > ∴

$$B t_f \cdot \sigma_y \cdot (H - t_f) + t_w \cdot (H - 2 t_f)^2 / 4 \cdot \sigma_y = M_y.$$

$$\therefore Z_{py} = B t_f (H - t_f) + t_w (H - 2 t_f)^2 / 4.$$

$$H - 400 \times 200 \times 8 \times 13$$

$$Z_{py} = 200 \cdot 13 \cdot (400 - 13) + 8 \cdot (400 - 2 \cdot 13)^2 / 4$$

$$= 1285952 \rightarrow 1286 \text{ cm}^3$$