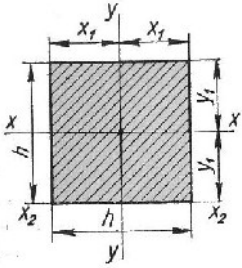
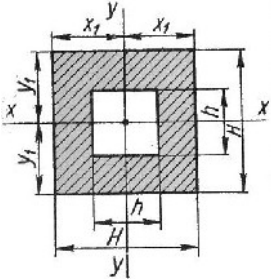
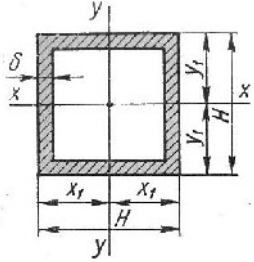
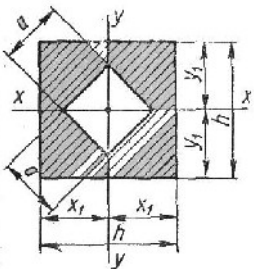
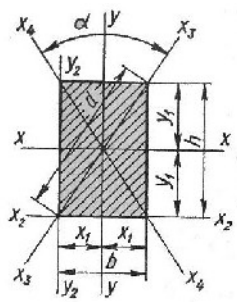


MẶT CẮT	DIỆN TÍCH MẶT CẮT F	TỌA ĐỘ ĐƯỜNG TRUNG HÒA	MOMENT QUÁN TÍNH	MOMENT CHỐNG UỐN MOMENT CHỐNG XOẮN	BÁN KÍNH QUÁN TÍNH
	$F = h^2$	$x_1 = y_1 = \frac{h}{2}$		$W_{ux} = W_{uy} = \frac{h^3}{6}$ $W_{xoắn} = 0,208 h^3$	
	$F = H^2 - h^2$	$x_1 = y_1 = \frac{H}{2}$		$W_{ux} = W_{uy} = \frac{H^4 - h^4}{6H}$	
	$F = 4H\delta$ $\delta < H/15$	$x_1 = y_1 = \frac{H}{2}$		$W_{ux} = W_{uy} = \frac{4}{3} H^2 \delta$	
	$F = h^2 - a^2$	$x_1 = y_1 = \frac{h}{2}$		$W_{ux} = W_{uy} = \frac{h^4 - a^4}{6h}$	



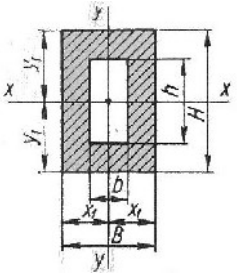
$$F = bh$$

$$x_1 = \frac{b}{2}$$

$$y_1 = \frac{h}{2}$$

$$W_{ux} = \frac{bh^2}{6} = \frac{Fh}{6}$$

$$W_{uy} = \frac{hb^2}{6} = \frac{Fb}{6}$$



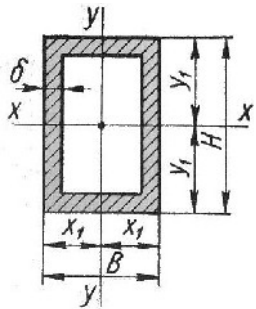
$$F = BH - bh$$

$$x_1 = \frac{B}{2}$$

$$y_1 = \frac{H}{2}$$

$$W_{ux} = \frac{BH^3 - bh^3}{6H}$$

$$W_{uy} = \frac{HB^3 - hb^3}{6B}$$

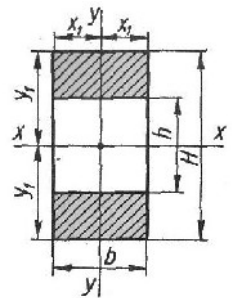


$$x_1 = \frac{B}{2}$$

$$y_1 = \frac{H}{2}$$

$$W_{ux} = \frac{\delta H^2}{3} \left( 3 \frac{B}{H} + 1 \right)$$

$$W_{uy} = \frac{\delta B^2}{3} \left( 3 \frac{H}{B} + 1 \right)$$

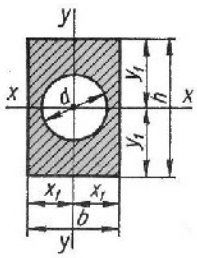


$$x_1 = \frac{b}{2}$$

$$y_1 = \frac{H}{2}$$

$$W_{ux} = \frac{b}{6H} (H^3 - h^3)$$

$$W_{uy} = \frac{b^2}{6} (H - h)$$

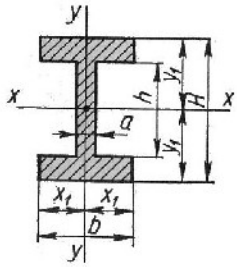


$$x_1 = \frac{b}{2}$$

$$y_1 = \frac{h}{2}$$

$$W_x = \frac{1}{2h} \left( \frac{bh^3}{3} - \frac{\pi d^4}{16} \right) = \frac{bh^2}{6} \left( 1 - 0,59 \frac{d^4}{bh^3} \right)$$

$$W_y = \frac{1}{2b} \left( \frac{hb^3}{3} - \frac{\pi d^4}{16} \right) = \frac{hb^2}{6} \left( 1 - 0,59 \frac{d^4}{hb^3} \right)$$

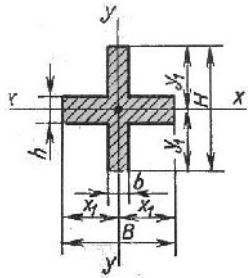


$$x_1 = \frac{b}{2}$$

$$y_1 = \frac{H}{2}$$

$$W_{ux} = \frac{ah^3}{6H} + \frac{b}{6H} (H^3 - h^3)$$

$$W_{uy} = \frac{a^3 h}{6b} + \frac{b^2}{6} (H - h)$$

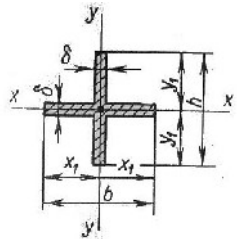


$$x_1 = \frac{B}{2}$$

$$y_1 = \frac{H}{2}$$

$$W_{ux} = \frac{bH^3 + (B-b)h^3}{6H}$$

$$W_{uy} = \frac{hB^3(H-h)b^3}{6B}$$

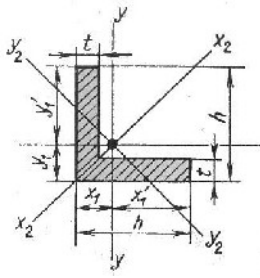


$$x_1 = \frac{b}{2}$$

$$y_1 = \frac{h}{2}$$

$$W_{ux} = \frac{h^3 \delta + \delta^3 (b - \delta)}{6h}$$

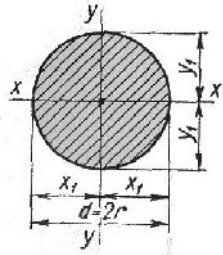
$$W_{uy} = \frac{b^3 \delta + \delta^3 (h - \delta)}{6b}$$



$$x_1 = y_1 = \frac{d}{2} = r$$

$$W_{ux} = W_{uy} = \frac{\pi d^3}{32} = \frac{\pi r^3}{4}$$

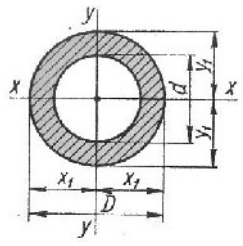
$$W_{xoán} = \frac{\pi d^3}{16} = \frac{\pi r^3}{2}$$



$$x_1 = y_1 = \frac{D}{2}$$

$$W_{ux} = W_{uy} = \frac{\pi(D^4 - d^4)}{32D}$$

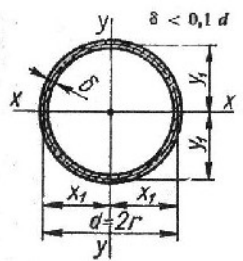
$$W_{ux} = W_{uy} = \frac{\pi(D^4 - d^4)}{16D}$$



$$x_1 = y_1 = \frac{d}{2} = r$$

$$W_{ux} = W_{uy} = \frac{\pi \delta d^2}{4}$$

$$W_{xoán} = \frac{\pi \delta d^2}{2}$$



(còn tiếp)

