

図形	断面面積 A	図示の軸より縁に至る距離 y	図示の軸にかんする断面二次モーメント I	図示の軸にかんする断面係数 W	図示の軸にかんする回転半径 r
中空小判形	$2(\pi r_0 + h)t$	$y_0 = r_0 + \frac{h+t}{2}$	$\pi t r_0^3 + 4t r_0^3 h + \frac{\pi}{2} t r_0 h^2 + \frac{1}{6} t h^3$	$W = \frac{I}{y_0}$	$r = \sqrt{\frac{I}{A}}$
欠円	$\frac{r^2}{2}(2\phi - \sin 2\phi)$	$y_1 = r(1 - \cos \phi) - y_2$ $y_3 = \frac{12A}{12A}$ $2r\left[\frac{1}{3}\sin \phi(2 + \cos^2 \phi)\right]$ $y_2 = \frac{2\phi - \sin 2\phi}{2r(\phi \cos \phi)}$ $\frac{2\phi - \sin 2\phi}{2\phi - \sin 2\phi}$	$r^4\left\{\phi\left(\frac{1}{4} + \cos^2 \phi\right) - \sin \phi \cos \phi\left(\frac{5}{4} - \frac{1}{6}\sin^2 \phi\right)\right\}$	x-x 軸にかんする断面二次モーメント	$r = \sqrt{\frac{I}{A}}$
円帯	$\frac{r^2}{2}(2\phi + \sin 2\phi)$	$y_1 = r \sin \phi - y_2$ $2r\left[\frac{1}{3}\sin \phi\left(\frac{1}{2}\sin 2\phi + 3\phi\right)\right]$ $y_1 = \frac{2\phi + \sin 2\phi}{2r\left[\frac{2}{3}(\cos \phi - 1)\right]}$ $\frac{2\phi + \sin 2\phi}{2\phi + \sin 2\phi}$	$r^4\left\{\phi\left(\sin^2 \phi + \frac{1}{4}\right) - \frac{4}{3}\sin \phi + \sin \phi \cos \phi\left(\frac{13}{12} + \frac{1}{6}\sin^2 \phi\right)\right\}$		$r = \sqrt{\frac{I}{A}}$
三角形	$\frac{bh}{2}$	$y_1 = \frac{2}{3}h$ $y_2 = \frac{1}{3}h$	$\frac{h^3b}{36}$	$W_1 = \frac{I}{y_1} = \frac{h^2b}{24}$ $W_2 = \frac{I}{y_2} = \frac{h^2b}{12}$	$\frac{h}{\sqrt{18}} = 0.236h$
台形	$\frac{1}{2}(a+b)h$	$y_1 = \frac{a+2b}{a+b} \times \frac{h}{3}$ $y_2 = \frac{2a+b}{a+b} \times \frac{h}{3}$	$\frac{a^2+4ab+b^2}{36(a+b)}h^3$	$W_1 = \frac{I}{y_1} = \frac{a^2+4ab+b^2}{12(2a+b)}h^2$ $W_2 = \frac{I}{y_2} = \frac{a^2+4ab+b^2}{12(2a+b)}h^2$	$\frac{\sqrt{2(a^2+4ab+b^2)}}{6(a+b)}h$
I形	$bh - w(b-t)$	$y_0 = \frac{h}{2}$	$\frac{bh^3 - w^3(b-t)}{12}$	$\frac{bh^3 - w^3(b-t)}{6h}$	$\sqrt{\frac{bh^3 - w^3(b-t)}{12[bh - w(b-t)]}}$
I形	$bh - w(b-t)$	$y_0 = \frac{b}{2}$	$\frac{2fb^3 + wt^3}{12}$	$\frac{2fb^3 + wt^3}{6b}$	$\sqrt{\frac{2fb^3 + wt^3}{12[bh - w(b-t)]}}$
溝形	$bh - w(b-t)$	$y_0 = \frac{h}{2}$	$\frac{bh^3 - w^3(b-t)}{12}$	$\frac{bh^3 - w^3(b-t)}{6h}$	$\sqrt{\frac{bh^3 - w^3(b-t)}{12[bh - w(b-t)]}}$
溝形	$bh - w(b-t)$	$y_1 = \frac{b^2h - w(b-t)^2}{2[bh - w(b-t)]}$ $y_2 = b - y_1$	$\frac{2fb^3 + wt^3}{3} - Ay_2^2$	$W_1 = \frac{I}{y_1}$ $W_2 = \frac{I}{y_2}$	$\sqrt{\frac{I}{A}}$
T形	$bf + wt$	$y_1 = \frac{h^2t + (b-t)f^2}{2(bf + wt)}$ $y_2 = h - y_1$	$\frac{th^3 + (b-t)f^3}{3} - Ay_1^2$	$W_1 = \frac{I}{y_1}$ $W_2 = \frac{I}{y_2}$	$\sqrt{\frac{I}{A}}$