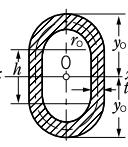
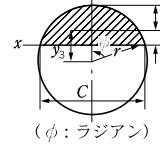
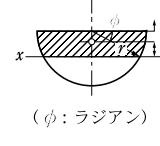
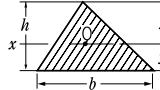
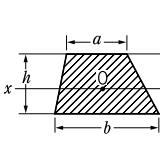
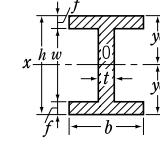
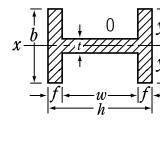
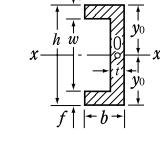
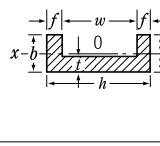
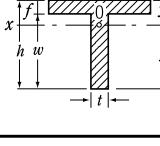


図形	断面積 A	図示の軸より縁に至る距離 y	図示の軸にかんする断面二次モーメント I	図示の軸にかんする断面係数 W	図示の軸にかんする回転半径 r
中空小判形		$2(\pi r_0 + h)t$	$y_0 = r_0 + \frac{h+t}{2}$ $\pi tr_0^3 + 4tr_0^3h + \frac{\pi}{2}tr_0h^2 + \frac{1}{6}th^3$	$W = \frac{I}{y_0}$	$r = \sqrt{\frac{I}{A}}$
欠円		$\frac{r^2}{2}(2\phi - \sin 2\phi)$	$y_1 = r(1 - \cos \phi) - y_2$ $y_3 = \frac{12A}{C^3}$ $y_2 = \frac{2r\left[\frac{1}{3}\sin \phi(2 + \cos^2 \phi)\right]}{2\phi - \sin 2\phi} - \frac{2r(\phi \cos \phi)}{2\phi - \sin 2\phi}$	$r^4 \left[\phi \left(\frac{1}{4} + \cos^2 \phi \right) - \sin \phi \cos \phi \left(\frac{5}{4} - \frac{1}{6} \sin^2 \phi \right) \right]$	$x-x$ 軸にかんする断面二次モーメント $r = \sqrt{\frac{I}{A}}$
円帯		$\frac{r^2}{2}(2\phi + \sin 2\phi)$	$y_1 = r \sin \phi - y_2$ $y_2 = \frac{2r\left[\frac{1}{3}\sin \phi\left(\frac{1}{2}\sin 2\phi + 3\phi\right)\right]}{2\phi + \sin 2\phi} + \frac{2r\left[\frac{2}{3}(\cos \phi - 1)\right]}{2\phi + \sin 2\phi}$	$r^4 \left[\phi \left(\sin^2 \phi + \frac{1}{4} \right) - \frac{4}{3} \sin \phi + \sin \phi \cos \phi \left(\frac{13}{12} + \frac{1}{6} \sin^2 \phi \right) \right]$	$r = \sqrt{\frac{I}{A}}$
三角形		$\frac{bh}{2}$	$y_1 = \frac{2}{3}h$ $y_2 = \frac{1}{3}h$	$W_1 = \frac{I}{y_1} = \frac{h^2 b}{24}$ $W_2 = \frac{I}{y_2} = \frac{h^2 b}{12}$	$\frac{h}{\sqrt{18}} = 0.236h$
台形		$\frac{1}{2}(a+b)h$	$y_1 = \frac{a+2b}{a+b} \times \frac{h}{3}$ $y_2 = \frac{2a+b}{a+b} \times \frac{h}{3}$	$W_1 = \frac{I}{y_1} = \frac{a^2 + 4ab + b^2}{12(2a+2b)} h^2$ $W_2 = \frac{I}{y_2} = \frac{a^2 + 4ab + b^2}{12(2a+b)} h^2$	$\frac{\sqrt{2(a^2 + 4ab + b^2)}}{6(a+b)} h$
I形		$bh - w(b-t)$	$y_0 = \frac{h}{2}$	$\frac{bh^3 - w^3(b-t)}{12}$	$\sqrt{\frac{bh^3 - w^3(b-t)}{12[bh - w(b-t)]}}$
I形		$bh - w(b-t)$	$y_0 = \frac{b}{2}$	$\frac{2fb^3 + wt^3}{12}$	$\sqrt{\frac{2fb^3 + wt^3}{12[bh - w(b-t)]}}$
溝形		$bh - w(b-t)$	$y_0 = \frac{h}{2}$	$\frac{bh^3 - w^3(b-t)}{12}$	$\sqrt{\frac{bh^3 - w^3(b-t)}{12[bh - w(b-t)]}}$
溝形		$bh - w(b-t)$	$y_1 = \frac{b^2 h - w(b-t)^2}{2[bh - w(b-t)]}$ $y_2 = b - y_1$	$\frac{2fb^3 + wt^3}{3} - Ay_2^2$	$W_1 = \frac{I}{y_1}$ $W_2 = \frac{I}{y_2}$
T形		$bf + wt$	$y_1 = \frac{h^2 t + (b-t)f^2}{2(bf+wt)}$ $y_2 = h - y_1$	$\frac{th^3 + (b-t)f^3}{3} - Ay_1^2$	$W_1 = \frac{I}{y_1}$ $W_2 = \frac{I}{y_2}$