

## Приложение. Геометрические характеристики сечений

Таблица 5

$F$	$bh$	$\frac{bh}{2}$	$\pi R^2$	$\frac{\pi R^2}{2}$	$\frac{\pi R^2}{4}$
$x_c$	$\frac{b}{2}$	$\frac{a+b}{3}$	$R$	$R$	$\frac{4R}{3\pi}$
$y_c$	$\frac{h}{2}$	$\frac{h}{3}$	$R$	$\frac{4R}{3\pi}$	$\frac{4R}{3\pi}$
$J_x$	$\frac{bh^3}{3}$	$\frac{bh^3}{12}$	$\frac{5\pi R^4}{4}$	$\frac{\pi R^4}{8}$	$\frac{\pi R^4}{16}$
$J_y$	$\frac{hb^3}{3}$	$\frac{hb(a^2 + ab + b^2)}{12}$	$\frac{5\pi R^4}{4}$	$\frac{5\pi R^4}{8}$	$\frac{\pi R^4}{16}$
$J_{xy}$	$\frac{b^2 h^2}{4}$	$\frac{bh^2(b+2a)}{24}$	$\pi R^4$	0	$\frac{R^4}{8}$
$J_{xc}$	$\frac{bh^3}{12}$	$\frac{bh^3}{36}$	$\frac{\pi R^4}{4}$	$R^4 \left( \frac{\pi}{8} - \frac{8}{9\pi} \right)$	$R^4 \left( \frac{\pi}{16} - \frac{4}{9\pi} \right)$
$J_{yc}$	$\frac{hb^3}{12}$	$\frac{hb(a^2 - ab + b^2)}{36}$	$\frac{\pi R^4}{4}$	$\frac{\pi R^4}{8}$	$R^4 \left( \frac{\pi}{16} - \frac{4}{9\pi} \right)$
$J_{xyc}$	0	$\frac{h^2 b(2a-b)}{72}$	0	0	$R^4 \left( \frac{1}{8} - \frac{4}{9\pi} \right)$