




Engineering Mechanics

Your Ultimate Cheat Sheet

Statics

Resultant

 $\cos \theta = \frac{b^2 + c^2 - a^2}{2bc}$
 $\sin \theta = \frac{a}{b} = \frac{A}{B} = \frac{a \sin B}{b}$
 $\theta = \sin^{-1} \left(\frac{a \sin B}{b} \right)$

Area

 $A = \frac{1}{2}bh$
 $A = \frac{1}{2}ab \sin C$
 $A = \frac{1}{2}ac \sin B$
 $A = \frac{1}{2}bc \sin A$

Centroid

 $\bar{x} = \frac{1}{3}x_c$
 $\bar{y} = \frac{1}{3}y_c$


Centroidal Moment of Inertia

 $I_x = \frac{1}{12}bh^3$
 $I_y = \frac{1}{12}b^3h$

Dynamics

KINEMATICS

LINEAR	ANGULAR
$s = vt$	$\theta = \omega t$
$v = u + at$	$\omega = \omega_0 + \alpha t$
$v^2 = u^2 + 2as$	$\omega^2 = \omega_0^2 + 2\alpha\theta$
$s = ut + \frac{1}{2}at^2$	$\theta = \omega_0 t + \frac{1}{2}\alpha t^2$

Projectile

 $s = \frac{1}{2}gt^2$
 $v = gt$
 $v^2 = 2gs$

Work-Energy
 $W = F \cdot s$
 $E_k = \frac{1}{2}mv^2$
 $E_p = mgh$

Impulse-Momentum
 $J = \Delta p$
 $J = F \Delta t$
 $p = mv$

Collisions
Elastic: $v_1 + v_2 = u_1 + u_2$
Inelastic: $v_1 + v_2 = u_1 + u_2$
Perfectly Inelastic: $v_1 + v_2 = u_1 + u_2$

Rigid Bodies

Shape	Centroid	Centroidal Moment of Inertia
Rectangle	$\bar{x} = \frac{b}{2}$ $\bar{y} = \frac{h}{2}$	$I_x = \frac{1}{12}bh^3$ $I_y = \frac{1}{12}b^3h$
Circle	$\bar{x} = 0$ $\bar{y} = 0$	$I_x = \frac{1}{4}\pi r^4$ $I_y = \frac{1}{4}\pi r^4$
Triangle	$\bar{x} = \frac{b}{3}$ $\bar{y} = \frac{h}{3}$	$I_x = \frac{1}{36}bh^3$ $I_y = \frac{1}{48}b^3h$
Semicircle	$\bar{x} = 0$ $\bar{y} = \frac{4r}{3\pi}$	$I_x = \frac{1}{80}\pi r^4$ $I_y = \frac{1}{80}\pi r^4$

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