

Engineering Mechanics

Your Ultimate Cheat Sheet

Statics

Resultant Force

$$R = \sqrt{F_1^2 + F_2^2 + 2F_1F_2\cos\theta}$$

$$\sin\theta = \frac{F_2}{R} \Rightarrow \theta = \sin^{-1}\left(\frac{F_2}{R}\right)$$

$$\cos\theta = \frac{F_1}{R} \Rightarrow \theta = \cos^{-1}\left(\frac{F_1}{R}\right)$$

Resultant Moment

$$d = \frac{F_1d_1 + F_2d_2 + F_3d_3}{R}$$

Centroid

$$d^2 = d_1^2 + d_2^2 - 2d_1d_2\cos A$$

$$d^2 = d_1^2 + d_2^2 - 2d_1d_2\cos B$$

$$d^2 = d_1^2 + d_2^2 - 2d_1d_2\cos C$$

Area

$$\frac{d^2}{d_1^2} = \frac{d_2^2}{d_2^2} = \frac{d_3^2}{d_3^2}$$

Centroidal Moment of Inertia

$$I_G = \frac{1}{12}bh^3$$

Dynamics

KINEMATICS

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

Relationship between Linear and Angular

$$s = r\theta \quad v = r\omega \quad a = r\alpha$$

Free-Body Diagram

$$F = mg \sin\theta$$

$$N = mg \cos\theta$$

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

Projectile

$$R = \frac{u^2 \sin 2\theta}{g}$$

$$H = \frac{u^2 \sin^2\theta}{2g}$$

Work-Energy Principle

$$W = \Delta E$$

Conservation of Energy

$$E_{\text{initial}} = E_{\text{final}}$$

$$K = \frac{1}{2}mv^2 \quad U = mgh$$

Impulse-Momentum

$$Ft = mv - mu$$

Angular Impulse-Momentum

$$\tau t = I\omega - I\omega_0$$

Collisions

Collision Type	Equation
Elastic	$v_1 = \frac{m_1 - m_2}{m_1 + m_2}u_1 + \frac{2m_2}{m_1 + m_2}u_2$
Inelastic	$v_1 = \frac{m_1 - m_2}{m_1 + m_2}u_1 + \frac{2m_2}{m_1 + m_2}u_2$
Perfectly Inelastic	$v_1 = \frac{m_1 - m_2}{m_1 + m_2}u_1 + \frac{2m_2}{m_1 + m_2}u_2$

Rigid Bodies

Shape	Centroid	Area
Rectangle	$\bar{x} = \frac{b}{2}, \bar{y} = \frac{h}{2}$	$A = bh$
Circle	$\bar{x} = \frac{4r}{3\pi}, \bar{y} = \frac{4r}{3\pi}$	$A = \pi r^2$
Triangle	$\bar{x} = \frac{b}{3}, \bar{y} = \frac{h}{3}$	$A = \frac{1}{2}bh$
Semicircle	$\bar{x} = \frac{4r}{3\pi}, \bar{y} = \frac{4r}{3\pi}$	$A = \frac{1}{2}\pi r^2$
Quarter Circle	$\bar{x} = \frac{4r}{3\pi}, \bar{y} = \frac{4r}{3\pi}$	$A = \frac{1}{4}\pi r^2$

Area Moment of Inertia

$$I = \int y^2 dA$$

Parallel Axis Theorem

$$I = I_G + Ad^2$$

Perpendicular Axis Theorem

$$I_z = I_x + I_y$$

Product of Inertia

$$I_{xy} = \int xy dA$$

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R Barnett



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1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Engineering Mechanics Cheat Sheet
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 - Chapter 3: Engineering Mechanics Cheat Sheet in Everyday Life
 - Chapter 4: Engineering Mechanics Cheat Sheet in Specific Contexts
 - Chapter 5: Conclusion
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6. In chapter 5, the author will draw a conclusion about Engineering Mechanics Cheat Sheet. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Mechanics Cheat Sheet.

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