

# Engineering Mechanics

## Your Ultimate Cheat Sheet

### Statics

**Resultant**

$R = \sqrt{P^2 + Q^2}$

$\tan \theta = \frac{Q}{P}$

**Triangle Rule**

$R^2 = P^2 + Q^2 - 2PQ \cos \theta$

$\sin \theta = \frac{p \sin A}{r}$

**Resolution**

$R_x = \sum F_x$

$R_y = \sum F_y$

$R = \sqrt{R_x^2 + R_y^2}$

$\theta = \tan^{-1} \left( \frac{R_y}{R_x} \right)$

### Dynamics

**KINEMATICS**

**LINEAR**

$v = u + at$

$s = ut + \frac{1}{2}at^2$

$v^2 = u^2 + 2as$

**ANGULAR**

$\omega = \omega_0 + \alpha t$

$\theta = \omega_0 t + \frac{1}{2}\alpha t^2$

$\omega^2 = \omega_0^2 + 2\alpha\theta$

**PROJECTILE**

**Horizontal Projectile**

$x = vt$

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

$t = \sqrt{\frac{2y}{g}}$

$R = v \sqrt{1 + \frac{2y}{g}}$

$\theta = \tan^{-1} \left( \frac{gt}{v} \right)$

**Oblique Projectile**

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

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

$T = \frac{2v \sin \theta}{g}$

$R_x = v \cos \theta$

$R_y = v \sin \theta$

**WORK, ENERGY, POWER**

**Work**

$W = F \cdot s$

$W = \int F \cdot ds$

**Energy**

$E_{kin} = \frac{1}{2}mv^2$

$E_{pot} = mgh$

$E_{spring} = \frac{1}{2}kx^2$

**Power**

$P = \frac{dW}{dt}$

$P = F \cdot v$

**IMPULSE AND MOMENTUM**

$J = \int F dt$

$J = \Delta p$

$p = mv$

**Change in momentum =  $\int F dt$**

$F = m \frac{dv}{dt}$

**WORK AND ENERGY**

$W = \int F \cdot ds$

$W = \Delta E$

**COLLISIONS**

**Elastic Collision**

$v_1 + v_1' = v_2 + v_2'$

$v_1 v_1' = v_2 v_2'$

**Inelastic Collision**

$v_1 + v_1' = v_2 + v_2'$

$v_1 v_1' \neq v_2 v_2'$

**Perfectly Inelastic Collision**

$v_1 + v_1' = v_2 + v_2'$

$v_1 v_1' = v_2 v_2' = 0$

### Rigid Bodies

**Area of Plane Figures**

**Rectangle**

$A = bh$

$I_x = \frac{bh^3}{12}$

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

**Square**

$A = s^2$

$I_x = \frac{s^4}{12}$

$I_y = \frac{s^4}{12}$

**Circle**

$A = \pi r^2$

$I_x = \frac{\pi r^4}{4}$

$I_y = \frac{\pi r^4}{4}$

**Triangle**

$A = \frac{1}{2}bh$

$I_x = \frac{bh^3}{36}$

$I_y = \frac{b^3h}{36}$

**Semicircle**

$A = \frac{1}{2}\pi r^2$

$I_x = \frac{\pi r^4}{8}$

$I_y = \frac{\pi r^4}{8}$

**Quarter Circle**

$A = \frac{1}{4}\pi r^2$

$I_x = \frac{\pi r^4}{16}$

$I_y = \frac{\pi r^4}{16}$

# Engineering Mechanics Cheat Sheet

**Patrick Vollmar**



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Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering ,1990 *Prompt*

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