

# Physics Equations

$$v = \frac{\Delta d}{\Delta t} = \frac{d_f - d_i}{t_f - t_i}$$

$$\bar{a} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$$

$$d = d_i + vt$$

$$v_f = v_i + \bar{a}\Delta t$$

$$d_f = d_i + v_i t + \frac{1}{2} \bar{a} \Delta t^2$$

$$v_f^2 = v_i^2 + 2\bar{a}(d_f - d_i)$$

$$d_f = d_i + \frac{1}{2}(v_i + v_f)t$$

$$a = \frac{F_{net}}{m}$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$\frac{A}{\sin A} = \frac{B}{\sin B} = \frac{C}{\sin C}$$

SOH

CAH

TOA

$$F_f = \mu F_n$$

$$a_c = \frac{v^2}{r} = \frac{4\pi^2 r}{T^2}$$

$$F_c = \frac{mv^2}{r} = \frac{m4\pi^2 r}{T^2}$$

$$\left(\frac{T_a}{T_b}\right)^2 = \left(\frac{r_a}{r_b}\right)^3$$

$$F = G \frac{m_1 m_2}{r^2}$$

$$T = 2\pi \sqrt{\frac{r^3}{Gm_s}}$$

$$v = \sqrt{\frac{Gm_s}{r}}$$

$$g = \frac{Gm}{r^2}$$

$$m_{grav} = \frac{r^2 F_{grav}}{Gm}$$

$$\bar{\omega} = \frac{\Delta \theta}{\Delta t}$$

$$\bar{a} = \frac{\Delta \omega}{\Delta t}$$

$$\theta_f = \theta_i + \omega t$$

$$\omega_f = \omega_i + \alpha \Delta t$$

$$\Delta \theta = \theta_f - \theta_i = \omega_i \Delta t + \frac{1}{2} \alpha \Delta t^2$$

$$\omega_f^2 = \omega_i^2 + 2\alpha \Delta \theta$$

$$\theta_f = \theta_i + \frac{1}{2}(\omega_i + \omega_f)t$$

$$a = \frac{r\alpha}{r}$$

$$I = mr^2$$

$$d = r\theta$$

$$v = r\omega$$

$$a = r\alpha$$

$$\tau = F_{\perp} r$$

$$p = mv$$

$$\text{impulse} = F\Delta t$$

$$F\Delta t = p_f - p_i$$

$$W = Fd$$

$$KE = \frac{1}{2}mv^2$$

$$U_g = mgh$$

$$v = \frac{W}{t} = \frac{Fd}{t} = Fv$$

$$Q = mc\Delta T$$

$$Q = mH_f$$

$$Q = mH_v$$

$$F = -kx$$

$$PE_{sp} = \frac{1}{2}kx^2$$

$$T = 2\pi \sqrt{\frac{I}{g}}$$

$$f = \frac{1}{T}$$

$$\lambda = \frac{v}{f}$$

$$\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$$

$$m = \frac{h_i}{h_o} = \frac{-d_i}{d_o}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$n = \frac{c}{v}$$

$$\sin \theta_c = \frac{n_2}{n_1}$$

$$\lambda = \frac{xd}{L}$$

$$\lambda = d \sin \theta$$

$$F = k \frac{q_1 q_2}{r^2}$$

$$E = \frac{F_{net}}{q} = \frac{V}{d}$$

$$\Delta V = \frac{W_{net}}{q}$$

$$\Delta V = Ed$$

$$C = \frac{q}{\Delta V}$$

$$W = \frac{1}{2} CV^2$$

$$I = \frac{q}{t}$$

$$P = IV$$

$$R = \frac{V}{I}$$

$$P = I^2 R$$

$$P = \frac{V^2}{R}$$

$$E = Pt$$

$$E = I^2 Rt$$

$$E = \left(\frac{V^2}{R}\right)t$$

$$R = R_1 + R_2 \dots$$

$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} \dots$$

$$V_s = \frac{VR_s}{(R_1 + R_2)}$$

$$F = ILB$$

$$F = qvB$$

$$G = 6.67 \times 10^{-11} \text{ Nm}^2 / \text{kg}^2$$

$$k = 9.0 \times 10^9 \text{ Nm}^2 / \text{C}^2$$

$$q_e = 1.6 \times 10^{-19} \text{ C}$$

$$c = 3 \times 10^8 \text{ m/s}$$

# Gamsat Physics Equation Lists Formulas And Topics

**Didier Musso**



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