

PHYSICAL CONSTANTS

Speed of Light $c = 3 \times 10^8 \text{ m/s}$
 Plank constant $h = 6.63 \times 10^{-34} \text{ J.s}$ $h = 1240 \text{ eV.nm}$
 Gravitation constant $G = 6.67 \times 10^{-11} \text{ N.m}^2/\text{kg}^2$
 Boltzmann constant $k = 1.38 \times 10^{-23} \text{ J/K}$
 Molar gas constant $R = 8.314 \text{ J/mol.K}$
 Avogadro's number $N_A = 6.023 \times 10^{23} / \text{mol}$
 Charge of electron $e = 1.602 \times 10^{-19} \text{ C}$
 Permeability of vacuum $\mu_0 = 4\pi \times 10^{-7} \text{ N/A}^2$
 Permittivity of vacuum $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$
 Coulomb constant $k_{elec} = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$
 Faraday constant $F = 96485 \text{ C/mol}$
 Mass of electron $m_e = 9.1 \times 10^{-31} \text{ kg}$
 Mass of proton $m_p = 1.6726 \times 10^{-27} \text{ kg}$
 Mass of neutron $m_n = 1.6749 \times 10^{-27} \text{ kg}$
 Atomic mass unit $u = 1.66 \times 10^{-27} \text{ kg}$
 Stefan-Boltzmann constant $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2\text{K}^4$
 Rydberg constant $R_\infty = 1.097 \times 10^7 / \text{m}$
 Bohr magneton $\mu_B = 9.27 \times 10^{-24} \text{ J/T}$
 Bohr radius $a_0 = 0.529 \times 10^{-10} \text{ m}$
 Standard atmosphere $atm = 1.01325 \times 10^5 \text{ Pa}$
 Wien displacement constant $b = 2.9 \times 10^{-3} \text{ mK}$

VECTORS

$\vec{a} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$ $|\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$
 Dot Product $\vec{a} \cdot \vec{b} = a_x b_x + a_y b_y + a_z b_z = ab \cos \theta$
 Cross Product $\vec{a} \times \vec{b} = ab \sin \theta$
 $\vec{a} \times \vec{b} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ a_x & a_y & a_z \\ b_x & b_y & b_z \end{vmatrix} = (a_y b_z - a_z b_y) \hat{i} + (a_z b_x - a_x b_z) \hat{j} + (a_x b_y - a_y b_x) \hat{k}$

KINEMATICS

$\vec{v}_{avg} = \Delta \vec{s} / \Delta t$ $\vec{v}_{inst} = d\vec{s} / dt$
 $\vec{a}_{avg} = \Delta \vec{v} / \Delta t$ $\vec{a}_{inst} = d\vec{v} / dt$
 $s = ut + \frac{1}{2} at^2$ $v = u + at$ $v^2 = u^2 + 2as$
RELATIVE VELOCITY
 $\vec{v}_{A/B} = \vec{v}_A - \vec{v}_B$

PROJECTILE MOTION

$u_x = u \cos \theta$ $u_y = u \sin \theta$ $H = \frac{u^2 \sin^2 \theta}{2g}$
 Time of Flight $= 2u_y / g \Rightarrow T = 2u \sin \theta / g$
 Range $= u_x T \Rightarrow R = \frac{u^2 \sin 2\theta}{g}$
 $y = \tan \theta \cdot x - \left(\frac{g}{2u^2 \cos^2 \theta} \right) \cdot x^2$

LAWS OF MOTION

1st Law: Inertia 2nd Law: $F = dP/dt = ma$ 3rd Law: Action $\Rightarrow$ Reaction
 Friction: $f_{friction, max} = \mu_s N$ $f_{friction} = \mu_k N$
 Centripetal force $= \frac{mv^2}{r} = m\omega^2 r$

PSEUDO FORCE $-m \cdot a_{ref. frame}$
VERTICAL CIRCULAR MOTION $\sqrt{5gl}$
CURVED BANKING $\frac{v^2}{rg} = \tan \theta$ $\frac{v^2}{rg} = \frac{\mu \pm \tan \theta}{1 \mp \mu \tan \theta}$

WORK, POWER & ENERGY

Work $= \vec{F} \cdot \vec{s} = Fs \cos \theta = \int \vec{F} \cdot d\vec{s}$
 $\oint \vec{F} \cdot d\vec{s} = 0$ (work by conservative force in a closed path)
 Power $= dw/dt = \vec{F} \cdot \vec{v}$
 KE $= \frac{1}{2} mv^2$
 POTENTIAL ENERGY (U)
 $U_g = mgh$ $\vec{F} = -dU/dx$
 Spring $= \frac{1}{2} kx^2$
 WORK-ENERGY THEOREM $W_{net} = \Delta K$
 K + U = Conserved

CENTER OF MASS

$x_{cm} = \frac{\sum x_i m_i}{\sum m_i} = \frac{\int x dm}{\int dm}$
 $\vec{v}_{cm} = \frac{\sum m_i \vec{v}_i}{\sum m_i}$ $\vec{F} = m \vec{a}_{cm}$


COLLISION

$\frac{m_1}{u_1} \rightarrow \frac{m_1}{v_1}$ $\frac{m_2}{u_2} \rightarrow \frac{m_2}{v_2}$
 MOMENTUM CONSERVATION (Always)
 $m_1 u_1 + m_2 u_2 = m_1 v_1 + m_2 v_2$
 $m_1 \gg m_2$ $m_1 \rightarrow$ undisturbed motion
 Solve using CoR in m_1 Frame
 KE vs V graph showing Elastic and Inelastic regions.
 $CoR = e = \frac{V_{separation}}{V_{approach}} = \frac{v_2 - v_1}{u_1 - u_2}$
 ENERGY CONSERVATION {Elastic}
 $\frac{1}{2} m_1 u_1^2 + \frac{1}{2} m_2 u_2^2 = \frac{1}{2} m_1 v_1^2 + \frac{1}{2} m_2 v_2^2$
 Velocity Exchange for Elastic

RIGID BODY DYNAMICS

$\omega = \frac{\Delta \theta}{\Delta t} = \frac{d\theta}{dt}$ $\alpha = \frac{\Delta \omega}{\Delta t} = \frac{d\omega}{dt}$ $\vec{v} = \vec{\omega} \times \vec{r}$ $\vec{a}_{tan} = \vec{\alpha} \times \vec{r}$
 $\theta = \omega_0 t + \frac{1}{2} \alpha t^2$ $\omega = \omega_0 + \alpha t$ $\omega^2 = \omega_0^2 + 2\alpha \theta$
 $\vec{L} = \vec{r} \times \vec{p} = m \vec{r} \times \vec{v}$ $\vec{L} = I \vec{\omega} = d\vec{L}/dt$
 $\vec{\tau} = \vec{r} \times \vec{F} = r_\perp F = r F \sin \theta$
 EQUILIBRIUM: $F_{net} = 0$ $\tau_{net} = 0$
 $\omega = 2\pi f$ $T = 1/f$
 $\omega = v/r$

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