

# PHYSICS FORMULAS AND CONSTANTS

## Speed Of Light

$$c = \frac{1}{\sqrt{\mu_0 \epsilon_0}} = 3.0 \times 10^8 \text{ m/s}$$

## Permittivity Of Free Space

$$\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/(\text{N} \cdot \text{m}^2)$$

## Permeability Of Free Space

$$\mu_0 = 4\pi \times 10^{-7} (\text{T} \cdot \text{m})/\text{A}$$

## Acceleration Due To Gravity At Earth's Surface

$$g = 9.8 \text{ m/s}^2$$

## Gravitational Constant

$$G = 6.67 \times 10^{-11} (\text{N} \cdot \text{m}^2)/\text{kg}^2$$

## h-bar

$$\hbar = \frac{h}{2\pi}$$

## Planck's Constant

$$h = 4.14 \times 10^{-15} \text{ eV} \cdot \text{s}$$

## Boltzmann's Constant

$$k = 1.38 \times 10^{-23} \text{ J/(molecule} \cdot \text{K)}$$

## Charge Of Electron

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

## 1 Atomic Mass Unit

$$1 \text{ amu} = 1.66 \times 10^{-27} \text{ kg}$$

## 1 Electron Volt

$$1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$$

## Coulomb's Constant

$$k = \frac{1}{4\pi\epsilon_0} = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$$

## Mass Of Electron

$$m_e = 9.11 \times 10^{-31} \text{ kg}$$

## Mass Of Earth

$$m_E = 5.98 \times 10^{24} \text{ kg}$$

## Ideal Gas Constant

$$R = 8.31 \text{ J/(mol} \cdot \text{K)}$$

## Avogadro's Number

$$N_A = 6.02 \times 10^{23} \text{ molecules/mol}$$

## Radius Of Earth

$$R_E = 6.38 \times 10^6 \text{ m}$$

## Stefan-Boltzmann Constant

$$\sigma = 5.67 \times 10^{-8} \text{ W/(m}^2 \cdot \text{K}^4)$$

## DYNAMICS AND KINEMATICS

$$x = x_0 + v_0 t + \frac{1}{2} a t^2$$

$$F_s = -kx$$

$$F_{net} = ma$$

$$T = 2\pi \sqrt{\frac{m}{k}}$$

$$F_{net} = \frac{dp}{dt}$$

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

$$f_k = \mu_k N$$

$$f_s \leq \mu_s N$$

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

$$a_c = \frac{v^2}{r} = \omega^2 r$$

## WORK, ENERGY, POWER, AND MOMENTUM

$$W = \int \vec{F} \cdot d\vec{s}$$

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

$$U_s = \frac{1}{2} kx^2$$

$$\vec{p} = m\vec{v}$$

$$U_g = mgh$$

$$F_s = -\frac{dU}{dx}$$

$$KE = \frac{1}{2} m v^2$$

$$\vec{r}_{cm} = \frac{\sum m_i \vec{r}_i}{\sum m_i}, \quad \vec{r}_{cm} = \frac{\int \vec{r} dm}{\int dm}$$

## ROTATIONAL MOTION

$$s = r\theta$$

$$\theta = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2$$

$$\vec{\tau} = \vec{r} \times \vec{F}, \quad \vec{\tau} = \frac{d\vec{L}}{dt}$$

$$\vec{L} = \vec{r} \times \vec{p}, \quad \vec{L} = I\vec{\omega}$$

$$I_{cm} = MR^2$$

$$I_{cm} = \frac{1}{2} MR^2$$

$$I_{other} = \frac{2}{5} MR^2$$

## UNIVERSAL GRAVITATION

$$F = \frac{Gm_1 m_2}{r^2}$$

$$T^2 = \frac{4\pi^2}{GM} r^3$$

$$U_g = -\frac{Gm_1 m_2}{r}$$

## MAGNETISM

$$\Phi_B = \int \vec{B} \cdot d\vec{A}$$

$$\vec{F} = q\vec{v} \times \vec{B}$$

$$\vec{F} = i\vec{l} \times \vec{B}$$

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{id\vec{s} \times \hat{r}}{r^2}$$

$$\vec{\tau} = \vec{\mu} \times \vec{B}$$

## MECHANICS OF FLUIDS

$$p = p_0 + \rho gh$$

$$\rho v A = \text{constant}$$

$$p + \frac{1}{2} \rho v^2 + \rho gh = \text{constant}$$

## THERMODYNAMICS

$$\Delta L = \alpha L_0 \Delta T$$

$$W = \int p dV$$

$$Q = mc\Delta T$$

$$\Delta S = \int \frac{dQ}{T}$$

$$Q = Lm$$

$$\epsilon \leq 1 - \frac{T_c}{T_H}$$

$$pV = nRT = NkT$$

$$\frac{dQ}{dt} = kA \frac{T_H - T_C}{L}$$

$$dE = dQ - dW$$

$$\frac{Q_C}{W} = \text{COP}$$

$$e = \frac{W_{out}}{Q_{in}}$$

## ELECTROSTATICS

$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}, \quad \Delta V = -\int \vec{E} \cdot d\vec{s}$$

$$\vec{E} = \frac{\vec{F}}{q}$$

$$\Phi_E = \int \vec{E} \cdot d\vec{A}$$

$$E = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$$

$$C = \frac{Q}{V}$$

$$U = qV$$

$$C = \frac{KE_0 A}{d}$$

$$V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$$

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

## MODERN PHYSICS

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

$$E = hf$$

$$\gamma = \frac{1}{\sqrt{1 - \beta^2}}$$

$$eV_0 = hf - \Phi$$

$$\Delta t = \gamma \Delta t_0$$

$$\frac{dQ}{dt} = \sigma A \epsilon T^4$$

$$L = \frac{L_0}{\gamma}$$

$$\lambda_{max} T = 2.898 \times 10^{-3} \text{ m} \cdot \text{K}$$

$$u' = \frac{u - v}{1 - \frac{u \cdot v}{c^2}}$$

$$E_n = (-13.6 \text{ eV}) \frac{Z^2}{n^2}$$

$$\lambda = \frac{h}{p}$$

$$\Delta x \Delta p \geq \frac{\hbar}{2}$$

$$N = N_0 e^{-\frac{t}{\tau}}$$

## PHYSICAL (WAVE) OPTICS

$$d \sin \theta = m\lambda, \quad m = 0, \pm 1, \pm 2, \dots$$

$$2d \sin \theta = m\lambda, \quad m = 0, \pm 1, \pm 2, \dots$$

$$\sin \theta = 1.22 \frac{\lambda}{d}$$

## AMPERE'S LAW, FARADAY'S LAW, AND MAXWELL'S EQUATIONS

$$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$$

$$\oint \vec{B} \cdot d\vec{A} = 0$$

$$\oint \vec{E} \cdot d\vec{s} = -\frac{d\Phi_B}{dt}$$

$$\oint \vec{B} \cdot d\vec{s} = \mu_0 j_{enc}$$

$$\epsilon_L = -L \frac{di}{dt}$$

$$U = \frac{1}{2} Li^2$$

$$L = \mu_0 n^2 \mathcal{A} \ell$$

$$i = I \left( 1 - e^{-\frac{t}{\tau}} \right)$$

$$f_R = \frac{1}{2\pi \sqrt{LC}}$$

$$Z = \sqrt{R^2 + \left( \omega L - \frac{1}{\omega C} \right)^2}$$

## GEOMETRICAL (RAY) OPTICS

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

$$I = I_0 \cos^2 \theta$$

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

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

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

$$\frac{1}{f} = (n - 1) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$$

$$\theta_R = \tan \left( \frac{n_2}{n_1} \right)$$

# General Physics Equations Sheet Explained

**Hongru Du**



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## **Table of Contents General Physics Equations Sheet Explained**

1. Understanding the eBook General Physics Equations Sheet Explained
  - The Rise of Digital Reading General Physics Equations Sheet Explained
  - Advantages of eBooks Over Traditional Books
2. Identifying General Physics Equations Sheet Explained
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an General Physics Equations Sheet Explained
  - User-Friendly Interface
4. Exploring eBook Recommendations from General Physics Equations Sheet Explained
  - Personalized Recommendations
  - General Physics Equations Sheet Explained User Reviews and Ratings

- General Physics Equations Sheet Explained and Bestseller Lists
- 5. Accessing General Physics Equations Sheet Explained Free and Paid eBooks
  - General Physics Equations Sheet Explained Public Domain eBooks
  - General Physics Equations Sheet Explained eBook Subscription Services
  - General Physics Equations Sheet Explained Budget-Friendly Options
- 6. Navigating General Physics Equations Sheet Explained eBook Formats
  - ePub, PDF, MOBI, and More
  - General Physics Equations Sheet Explained Compatibility with Devices
  - General Physics Equations Sheet Explained Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of General Physics Equations Sheet Explained
  - Highlighting and Note-Taking General Physics Equations Sheet Explained
  - Interactive Elements General Physics Equations Sheet Explained
- 8. Staying Engaged with General Physics Equations Sheet Explained
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers General Physics Equations Sheet Explained
- 9. Balancing eBooks and Physical Books General Physics Equations Sheet Explained
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection General Physics Equations Sheet Explained
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine General Physics Equations Sheet Explained
  - Setting Reading Goals General Physics Equations Sheet Explained
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Physics Equations Sheet Explained
  - Fact-Checking eBook Content of General Physics Equations Sheet Explained
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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