



PHYSICS



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WHAT IS PHYSICS ALL ABOUT?

Physics seeks to understand the natural phenomena that occur in our universe; a description of a natural phenomenon uses many specific terms, definitions and mathematical equations.
Solving Problems in Physics
In physics, we use the SI units (International System) for data and calculations.

Base Quantity	Symbol	Unit
Length	L, x	Meter - m
Mass	m, M	Kilogram - kg
Temperature	T	Kelvin - K
Time	t	Second - s
Electric Current	I	Ampere - A (C/s)

Other physical quantities are derived from these basic units. Prefixes denote fractions or multiples of units; many variable symbols are Greek letters.
Math Skills: Many physical concepts are only understood with the use of algebra, statistics, trigonometry and calculus.

CLASSICAL MECHANICS

A. Classical or Newtonian Mechanics: The position of a body is given by an equation of motion with position, velocity and acceleration as variables; mass is the measure of the amount of matter; the standard unit for mass is kg, $1 \text{ kg} = 1000 \text{ g}$; Inertia is a property of matter, and as such, it occupies space.

1. Motion along a straight line is called rectilinear; the equation of motion describes the position of the particle and velocity for elapsed time, t .

a. **Velocity (v):** The rate of change of the displacement

$$(x) \text{ with time } (t): v = \frac{dx}{dt} = \frac{dx}{dt}$$

b. **Acceleration (a):** The rate of change of the velocity with time: $a = \frac{dv}{dt} = \frac{dv}{dt}$

a & v are vectors, with magnitude and direction

c. **Speed** is the absolute value of the velocity; scalar with the same units as velocity.

2. **Equations of Motion for One Dimension (1-D)**

Equations of motion describe the future position (x) and velocity (v) of a body in terms of the initial velocity (v_0), position (x_0) and acceleration (a)

a. For constant acceleration, the position is related to the time and acceleration by the following equation of motion: $x(t) = x_0 + v_0 t + \frac{1}{2} a t^2$

b. For constant acceleration, the velocity vs. time is given by the following: $v(t) = v_0 + a t$

c. If the acceleration is a function of time, the equation must be solved using $a = a(t)$

B. Motion in Two Dimensions (2-D)

1. For bodies moving along a straight line, derive x - and y -equations of motion

$$x = v_{0x} t + \frac{1}{2} a_x t^2$$

$$y = v_{0y} t + \frac{1}{2} a_y t^2$$



2. For a rotating body, use polar coordinates, an angle variable, θ , and r , a radial distance from the rotational center

Polar: (r, θ)
 $r = r \cos \theta$
 $r^2 = x^2 + y^2$

C. Motion in Three Dimensions (3-D)

1. **Cartesian System:** Equations of motion with x , y and z components

2. **Spherical Coordinates:** Equations of motion based on two angles (θ and ϕ) and r , the radial distance from the origin.



D. Newton's Laws of Motion
Newton's Laws are the core principles for describing the motion of classical objects in response to forces. The SI unit of force is the Newton, N; $1 \text{ N} = 1 \text{ kg m/s}^2$, the cgs unit is the dyne; $1 \text{ dyne} = 1 \text{ g cm/s}^2$

$x = r \sin \theta \cos \phi$
 $y = r \sin \theta \sin \phi$
 $z = r \cos \theta$
 $r^2 = x^2 + y^2 + z^2$

- Newton's 1st Law:** A body remains at rest or in motion unless influenced by a force
- Newton's 2nd Law:** Force and acceleration determine the motion of a body and predict future position and velocity: $F = m a$ OR $\Sigma F = m a$
- Newton's 3rd Law:** Every action is countered by an opposing action

E. Types of Forces

1. A body force acts on the entire body, with the force acting at the center of mass

a. A gravitational force, F_g , pulls an object toward the center of the Earth: $F_g = m g$

b. Weight = F_g ; gravitational force

c. Mass is a measure of the quantity of material, independent of g and other forces.

2. Surface forces act on the body's surface

a. **Friction, F_f ,** is proportional to the force normal to the part of the body in contact with a surface.
 $F_f = F_N = \mu F_N$

i. **Static friction** resists the movement of a body

ii. **Dynamic friction** slows the motion of a body

For an object on a horizontal plane:
 $F_f = \mu F_N = \mu m g$
 Net force = $F_f + F_g$



F. Circular Motion

1. Motion along a circular path uses polar coordinates: (r, θ)

2. **Key Variables:**

r	Meter	The distance from the rotation center (center of mass)
θ	Radian	The angle between r and the (x) axis
ω	Radian/second	The angular velocity
α	Radian/second ²	The angular acceleration
s	Meter	The circular motion arc $s = r\theta$ (θ in rad)



3. **Tangential acceleration & velocity:**
 $v_t = r \omega$, $a_t = r \alpha$; v and a along the path of the motion are

4. **Centripetal acceleration:** $a_c = \frac{v^2}{r}$; a is directed toward the rotational center

a. The centripetal force keeps the body in circular motion with a tangential acceleration and velocity

G. Kinetic Energy & Work

1. **Kinetic energy, K :** Kinetic energy is the energy of motion; mass, m and velocity, v ; $K = \frac{1}{2} m v^2$

The SI energy unit is the Joule (J); $1 \text{ J} = 1 \text{ kg m}^2/\text{s}^2$

2. **Momentum, p :** Momentum is a property of motion, defined as the product of mass and velocity: $p = m v$

3. **Work (W):** Work is a force acting on a body moving a distance; for a general force, F , and a body moving a path, s : $W = \int F ds$

For a constant force, work is the scalar product of the two vectors: force, F , and path, r :
 $W = F d \cos(\theta) = F \cdot r$



Maximum work: $W = F r$

No work: $W = 0$

4. **Power (P):** energy expended per unit time:
 $P = \frac{dW}{dt} = \frac{dW}{dt}$

$$Work = \int P(t) dt$$

The SI unit for power is the Watt (W):

$$1 \text{ W} = 1 \text{ Joule/second} = 1 \text{ J/s}$$

Work for a constant output of power:

$$W = P \Delta t$$

H. Potential Energy & Energy Conservation

1. The total energy of a body, E , is the sum of kinetic, K , & potential energy, U : $E = K + \Sigma U$

2. **Potential energy** arises from the interaction with a potential from an external force

Potential energy is energy of position; $U(r)$; the form of U depends on the force generating the potential:

Gravitational: $U(h) = m g h$

Electrostatic: $U(r_{12}) = \frac{q_1 q_2}{r_{12}}$

If there are no other forces acting on the system, E is constant and the system is called **conservative**

I. Collisions & Linear Momentum

1. **Types of Collisions:**

a. **Elastic:** conserve energy

b. **Inelastic:** energy is lost as heat or deformation



2. **Relative Motion & Frames of Reference:** A body moves with velocity v in frame S ; in frame S' the velocity is v' ; if $V_{S'}$ is the velocity of frame S' relative to S , therefore: $v = V_{S'} + v'$

3. **Elastic Collision:**

Conserve Kinetic Energy: $\Sigma \frac{1}{2} m v^2 = \Sigma \frac{1}{2} m v'^2$

Conserve Momentum: $\Sigma m v_i = \Sigma m v_f$

4. **Impulse** is a force acting over time

$$Impulse = F \Delta t \text{ or } \int F(t) dt$$

Impulse is also the momentum change: $p_{fin} - p_{ini}$

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Active Physics Study Guide

Mansoor Khan, MBBS, RDMS, RDCS



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Table of Contents Active Physics Study Guide

1. Understanding the eBook Active Physics Study Guide
 - The Rise of Digital Reading Active Physics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Active Physics Study Guide
 - 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 Active Physics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Active Physics Study Guide
 - Personalized Recommendations
 - Active Physics Study Guide User Reviews and Ratings
 - Active Physics Study Guide and Bestseller Lists
5. Accessing Active Physics Study Guide Free and Paid eBooks
 - Active Physics Study Guide Public Domain eBooks
 - Active Physics Study Guide eBook Subscription Services
 - Active Physics Study Guide Budget-Friendly Options
6. Navigating Active Physics Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Active Physics Study Guide Compatibility with Devices
- Active Physics Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Active Physics Study Guide
 - Highlighting and Note-Taking Active Physics Study Guide
 - Interactive Elements Active Physics Study Guide
- 8. Staying Engaged with Active Physics Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Active Physics Study Guide
- 9. Balancing eBooks and Physical Books Active Physics Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Active Physics Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Active Physics Study Guide
 - Setting Reading Goals Active Physics Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Active Physics Study Guide
 - Fact-Checking eBook Content of Active Physics Study Guide
 - 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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