

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. **Fractions** 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 (s) with time (t): $v = \frac{ds}{dt} = \frac{\Delta s}{\Delta t}$

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

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

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 ; $1N = 1 \text{ kg m/s}^2$, the cgs unit is the dyne; $1 \text{ dyne} = 1 \text{ g cm/s}^2$

- 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 move-ment 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 = $F_A - F_f$



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:**

$$v_t = r \omega; a_t = r \alpha; v \text{ and } a \text{ along the path of the motion arc}$$

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)**: $1J = 1 \text{ kg m}^2/\text{s}^2$

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 :

$$W = F d \cos(\theta) = F \cdot r$$



4. **Power (P):** energy expended per unit time:

$$P = \frac{\Delta \text{Work}}{\Delta \text{time}} = \frac{\Delta \text{Work}}{\Delta t}$$

$$\text{Work} = \int P(t) dt$$

The SI unit for power is the **Watt (W)**: $1W = 1 \text{ Joule/second} = 1J/s$

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:

Gravitation: $U(h) = mgh$

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

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

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

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D Kirk



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Guide to Nuclear Physics Bruce Booty, 1972

Nuclear Physics John Lilley, 2013-06-05 This title provides the latest information on nuclear physics Based on a course entitled Applications of Nuclear Physics Written from an experimental point of view this text is broadly divided into two parts firstly a general introduction to Nuclear Physics and secondly its applications Includes chapters on practical examples and problems Contains hints to solving problems which are included in the appendix Avoids complex and extensive mathematical treatments A modern approach to nuclear physics covering the basic theory but emphasising the many and important applications

Problems and Solutions in Nuclear Physics Mouaiyad M. S Alabed, 2012-06 The book uses to help students that study nuclear physics The book contains 242 tasks and solutions in different fields involving nuclear physics such as accelerators which accelerate the particles and calculate the relative mass and velocity of the particle nuclear reactors nuclear fission inside the reactor core radioactivity decay of the particle such as alpha and beta and gamma decay Many tasks that include the radiation doses The book uses many of concepts such as binding energy kinetic energy and radius of nuclei wavelength of the particle such as electron proton and neutron There are tasks about the density of nuclear material heat equilibrium and collision which occur between these particles and nuclei of the target produce by these collision two types of scattering they are elastic and inelastic scattering of the particle The angle of the scattering plays an important role in the calculation of kinetic energy and momentum The book also includes appendix with tables of physical constants related to these tasks This is includes a table of radioactive isotopes Student can be used this book to help him to develop his acknowledge of the many topics related to nuclear energy in general and especially nuclear physics

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An Introduction to the Engineering Aspects of Nuclear Physics Santanu Ghosh, 2009-11-11 This book is meant for those opting for courses where knowledge of applications of nuclear physics is required and also to the people involved in application oriented fields of nuclear physics This book includes major applications of nuclear physics such as detector technology nuclear power activation analysis and applications to biology Students learning engineering aspects of physics which is an upcoming course of study in various institutes will find the book useful

Fundamentals of Nuclear Physics Nicholas Alfred Jelley, 1990 This textbook on nuclear physics will be of value to all undergraduates studying nuclear physics as well as to first year graduates

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