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 must be marked expositions

Solving Problems in Physics

In physics, we use the SI units (International System) for data and calculations.

Buse Quantity	Symbol	Chair
Length	7. 1	Meter - m
Maron	Sen, MI	Killingswen - kg
Temperature	7	Kielvin - K
Time		Second - s
Electric Corrent	7	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, triposessorry and collection

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 kg = 1000 g.; inertia is a property of matter, and as such, it occupies space
- I. Motion along a straight line is called rectifinear; 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): $v = \frac{ds}{dt} = \frac{ds}{dt}$
 - b. Acceleration (a): The rate of change of the velocity with time: $a = \frac{dx}{dx} = \frac{dx}{dx}$
 - 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 Our Dimension (I-D): Equations of motion describe the future position (x) and velocity (v) of a body in terms of the initial
 - velocity (v.), position (x.) and acceleration (x) a. For constant acceleration, the position is related to the time and acceleration by the following
 - equation of motion: $x(t) = x_s + v_s t + (a.t)$ b. For constant acceleration, the velocity vs. time is given by the following: $v_1(t) = v_1 + a t$
 - c. If the acceleration is a function of time, the equation must be solved using a - a(t)

H. Motion in Two Dimensions (2-D): Lifer bodies moving along a straight line, derive x- and yannext leaves e-quantisoms. - delf



2. For a rotating body, use polar coordinates, an ample variable, B, and r, a radial distance from

the notational center C. Motion in Three Dimensions (3-D): I Cartesian System: Equations of motion with x, y and z components

- 2. Spherical Coordinates: Equations of motion based on two angles (67 and w) and r, the radial distance from the origin.
- D. Newton's Laws of Medica 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



Planting.

1000

Pollars 64, 40.

All the or secondly.

- propries
- Newton, No 1N+Hog m/s2; the cas unit is the dynes I. dyne will genula?

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

E. Types of Forego.

- L. A body force acts on the entire body, with the force acting at the center of mass
 - a. A gravitational force, Fp. pulls an object toward the center of the Earth; F. - mg.
 - b. Weight = F_a; 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, Fr., is proportional to the force normal to the part of the body in contact with a surface, F_{-} : F_{-} = μ F_{-}

Domanule Friedless

A CONTRACTOR OF THE PARTY OF TH

Cherolius Madiana

- i. Studie frietlan resists the move-ment of a body
- ii Dynamic friction slows the motion of a body For an object on a horizontal plane: Firm pa Fig. or pa son gr

Not force - Fig. Fr. 10 Circular Medica

- 1. Motion along a circular path uses poter coordinates: (r. 69)
- 2. Key Variables:

Meser	The distance from the sotation center (center of mass)
Radian	The angle between r and the (x) axis
Radius/second	The angular velocity
Radius second ²	The angular acceleration
Meter	The circular motion are $s = r\theta (\theta \text{ in rad})$
	Radian/second Radian/second

- 3. Tangential acceleration & velocity:
 - v. = roca. = ror; v and a along the path of the
- 4. Contripotal acceleration: n. = ; a is directed noward the rotational center
- a. The centripetal force keeps the body in circular motion with a tangential acceleration and velocity

G. Kinetic Energy & Work

- I. Kinetic energy, K: Kinetic energy is the energy of motion; mass, as and velocing v; K = [mv* The SI energy unit is the Joule $4.3 - 1 \text{ kg m}^2/s^2$
- 2. Momentum, pc 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 math, at W = \int F do. For a constant force, work is the scalar product of

the two voctors: force, F, and path, r: $W = F d \cos(60) = F \cdot r$



p = dWork = dWork of Change

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

The SI unit for power in the Watt (Wit-

1/W = 1 Josefe/second = 1 J/s. Work for a constant output of powers W - Pat

H. Potential Energy & Energy Conservation

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

Gravitations Uth) - mgh

Electrostatic: $U(r_n) = \frac{q_n q_n}{r_n}$ If there are no other forces acting on the system, E is

Collisions

constant and the system is called conservative L. Collisions & Linear Momentum

- 1. Types of Collisions a. Elastic: conserve energy
- b. Implastic; emergy is lost as heat or deflormation
- 2. Relative Metion & Frames of Reference: A body moves with velocity v in frame S; in frame S' the velocity is v'; if V,' is the velocity
- of frame S' relative to S, therefore: $v = V_s' + v'$ 3. Elizatic Collision.
- Conserve Kinetic Energy: $\sum |m| v! = \sum |m| v!$
- Conserve Momentum: $\sum m v_i = \sum m v_i$ 4. Impulse is a fooce acting over time
 - Impulse = FAt or $\int F(t)dt$
- Impulse is also the momentum change: pm pm

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