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 mustbe matical equations

Solving Problems in Physics

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

Buse Quantity	Symbol	Unit
Longth	1. 11	Meter - m
Maren	Sec., 347	Killingram - kg
Temperature	(F)	Kelvin - K
Times		Second - s
Electric Corrent	/	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.

Marth Skillist Many physical concepts are only understood. with the use of algebra, statistics, trigonometry 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 (Ocv - 葉-雲
 - b. Acceleration (a): The rate of change of the velocity with time: a - * + *
 - a & v are vectors, with magnitude and direction.
 - c. Speed is the absolute value of the velocity; scalar with the same solds as velocity
 - 2. Equations of Motion for One 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 (v.) and acceleration (a)

- a. For constant acceleration, the position is related to the time and acceleration by the following equation of motion: $x(t) = x_s + v_s t + |a|t|$
- 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)

1. For books moving along a straight line, derive x- and yand the same equations. - colf

 $\mathbf{x} = \mathbf{y}_{n}\mathbf{t} + \{\mathbf{a}_{n}\mathbf{t}^{n}$ $y = y_0 + 4 a_0 T$

2. For a retating body, use polar coordinates, an angle variable, θ , and r, a radial distance from the estational conter-



Newton, No 1N=1kg m/s2; the egs unit is the dynes I

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

dyne = lig cm/s²



Pollars dr. 40.

A THE RESIDENCE

per the per the

- 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 predict future position and velocity: $F = m \cdot n$ OR $\Sigma F = m \cdot n$
- 3. Newton's 3rd Law: Every action is countered by an opposing action

E. Topos of Forest

- 1. 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: $F_g = mg$
 - b. Weight Fat gravitational force
 - e. 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, $F_{-}:F_{+}\rightarrow \mathbb{R}_{+}$ Demands Friedlan

t. Stattle frietlan resists the move-ment of a body

ii. Dynamic friction slows the motion of a body For an object on a horizontal plane: $F_{\alpha} = \mu F_{\alpha} = \mu \text{ mag}$

Access 1 and 1 control of Cherokar Madelian

IC Chryslar Medica

1. Motion along a circular path uses potar coordinates: (r. 6)

Not force $= F_0 - F_Y$

7 Moreo Wheelshillman

-	Meter	The distance from the rotation center (center of mass)	
0	Radian	The angle between r and the (x) axis	
400	Radium/second	The angular velocity	
90	Radian second	The angular acceleration	
	Meter	The circular motion are $s = r\theta (\theta \text{ in rad})$	

3. Tangential acceleration & velocity:

v. = resta. = rer; 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 velocity, v; K = [mv* The SI energy unit is the Joule $1.3 - 1 \text{ kg m}^2/e^2$
- 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 path, at W = \int F do. For a constant force, work is the scalar product of

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



P = AWork = AWork of Change

Work - / P(t)-bt

The SI unit for power in the Watt (Wit-I W = I Joule/recond = I 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. 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:

Gravitations U(h) - mgh

Electrostatics $U(r_n) = \frac{q_n q_n}{r_n}$ If there are no other forces acting on the system, E is constant and the system is called conservative

Collinate

L. Collisions & Linear Momentum 1. Types of Collisions

a. Elastics conserve energy

b. Inclustic; energy is lost as boat or deflorantion

2. Relative Motion & 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. Electic Collision. Conserve Kinetic Energy: $\sum |m| v_i^* = \sum |m| v_i^*$

Conserve Momentum: $\sum m v_i = \sum m v_i$

4. Impulse is a force acting over time

Impulse = FAt or $\int F(t)dt$

Impulse is also the momentum change: pm - pm

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