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.

Base Quantity	Symbol	Codt
Longth	2. 1	Meter - m
Mass	(m., 34)	Kritingrams - kg
Temperature	17	Kelvin - K
Times		Second - a
Electric Current	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.

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



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

the estational conter-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. (80 and 40) and 4, 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



Postlere.

Pollars dr. 40.

A THE RESIDENCE

per the per the

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

- 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

Access 1 and 1 control of

Cherokar Mathema

- 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: $F_{\alpha} = \mu F_{\alpha} = \mu \text{ mag}$

Not force $= F_0 - F_Y$ IC Chryslar Medica

- 1. Motion along a circular path uses potar coordinates: (r. 6)
- 2. Key Variables:

-	Meter	The distance from the rotation center (center of mass)
0	Radian	The angle between r and the (x) axis
40	Radian/second	The angular velocity
100	Radian/second ²	The angular acceleration
400	Mener	The circular motion are s = r0 (0 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

Answer Physics Study Guide A Physics Toolkit

Daniel F McAuley

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Table of Contents Answer Physics Study Guide A Physics Toolkit

- 1. Understanding the eBook Answer Physics Study Guide A Physics Toolkit
 - The Rise of Digital Reading Answer Physics Study Guide A Physics Toolkit
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Physics Study Guide A Physics Toolkit
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Physics Study Guide A Physics Toolkit
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Physics Study Guide A Physics Toolkit
 - Personalized Recommendations
 - Answer Physics Study Guide A Physics Toolkit User Reviews and Ratings
 - Answer Physics Study Guide A Physics Toolkit and Bestseller Lists
- 5. Accessing Answer Physics Study Guide A Physics Toolkit Free and Paid eBooks
 - Answer Physics Study Guide A Physics Toolkit Public Domain eBooks
 - Answer Physics Study Guide A Physics Toolkit eBook Subscription Services
 - Answer Physics Study Guide A Physics Toolkit Budget-Friendly Options

- 6. Navigating Answer Physics Study Guide A Physics Toolkit eBook Formats
 - o ePub, PDF, MOBI, and More
 - Answer Physics Study Guide A Physics Toolkit Compatibility with Devices
 - Answer Physics Study Guide A Physics Toolkit Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Physics Study Guide A Physics Toolkit
 - o Highlighting and Note-Taking Answer Physics Study Guide A Physics Toolkit
 - Interactive Elements Answer Physics Study Guide A Physics Toolkit
- 8. Staying Engaged with Answer Physics Study Guide A Physics Toolkit
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Answer Physics Study Guide A Physics Toolkit
- 9. Balancing eBooks and Physical Books Answer Physics Study Guide A Physics Toolkit
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Physics Study Guide A Physics Toolkit
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Physics Study Guide A Physics Toolkit
 - Setting Reading Goals Answer Physics Study Guide A Physics Toolkit
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Physics Study Guide A Physics Toolkit
 - Fact-Checking eBook Content of Answer Physics Study Guide A Physics Toolkit
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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