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 (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)

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,  $\theta$  , 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/s<sup>2</sup>

- 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 Madelian

- 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 <sup>2</sup>	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

# **Answers To Study Guide In Physics**

**RD Boyd** 

#### **Answers To Study Guide In Physics:**

Student Study Guide and Solutions Manual for University Physics, Volume 1 (Chapters 1-20) Hugh Young, Roger Freedman, 2019-07-27 The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions Student's Study Guide for University Physics with Modern Physics Volume 1 Chapters 1 20 Edition Student Study Guide John D. Cutnell, 2018-01-23 The Student Study Guide to accompany Physics 11E contains chapter summaries and quick references to important equations and key chapter terms with definitions provided Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou, 2006-05 The Essential Physics of Medical Imaging Study *Guide* Jerrold T. Bushberg, J. Anthony Seibert, 2022-07-14 Widely regarded as the cornerstone text in the field the successful series of editions continues to follow the tradition of a clear and comprehensive presentation of the physical principles and operational aspects of medical imaging The Essential Physics of Medical Imaging 4th Edition is a coherent and thorough compendium of the fundamental principles of the physics radiation protection and radiation biology that underlie the practice and profession of medical imaging Distinguished scientists and educators from the University of California Davis provide up to date readable information on the production characteristics and interactions of non ionizing and ionizing radiation magnetic fields and ultrasound used in medical imaging and the imaging modalities in which they are used including radiography mammography fluoroscopy computed tomography magnetic resonance ultrasound and nuclear medicine This vibrant full color text is enhanced by more than 1 000 images charts and graphs including hundreds of new illustrations This text is a must have resource for medical imaging professionals radiology residents who are preparing for Core Exams and teachers and students in medical physics and biomedical engineering Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 **Student Solutions Manual and Study Guide for Serway and** Jewett's Physics for Scientists and Engineers, Sixth Edition John R. Gordon, Ralph V. McGrew, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and CHEMISTRY HANDBOOK & STUDY GUIDE Gr11-12 NE Kevin answers to selected end of chapter questions Smith, 2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any Student Study Guide and Solutions Manual for University Physics with Modern Physics Volume 3 (Chs 37-44) class text Hugh D. Young, Roger A. Freedman, 2019-09-12 The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions Student's Study Guide for University Physics with Modern Physics Volume 2 Chapters

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