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Quick Study ACADEMIC

PHYSICS

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; **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, 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 kg = 1000 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: $v_x(t) = v_0 + a t$
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

Polar: (r, θ)
$x = r\cos\theta$,
$y = r\sin\theta$,
$r^2 = x^2 + y^2$

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.

Spherical

$x = r\sin\varphi\cos\theta$,
$y = r\sin\varphi\sin\theta$,
$z = r\cos\varphi$,
$r^2 = x^2 + y^2 + z^2$

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:** $1N = 1 kg\ m/s^2$; the cgs unit is the **dyne:** 1 dyne = 1g cm/s²

1. **Newton's 1st Law:** A body remains at rest or in motion unless influenced by a force
2. **Newton's 2nd Law:** Force and acceleration determine the motion of a body and predict future position and velocity: $F = m\,a$ OR $\sum F = m\,a$
3. **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: $F_g = mg$
   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_n: $F_f = \mu F_n$
      i. **Static friction** resists the movement 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 = $F_h - F_f$

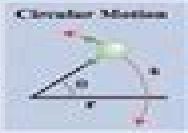
Dynamic Friction

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/second²	The angular acceleration
s	Meter	The circular motion arc $s = r\theta$ (θ in rad)

Circular Motion



3. **Tangential** acceleration & velocity:
   $v_t = r\omega$; $a_t = r\alpha$; v and a along the path of the motion arc
4. **Centripetal** acceleration: $a_c = \frac{v_t^2}{r}$; **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):** $1J = 1\ kg\ m^2/s^2$
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)** is energy expended per unit time: $P = \frac{\Delta Work}{\Delta time} = \frac{\Delta Work}{\Delta t}$
   $Work = \int P(t)\,dt$
   The SI unit for power is the **Watt (W):**
   1 W = 1 Joule/second = 1 J/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: $E = K + \sum U$
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:
   Gravitation: U(h) = mgh
   Electrostatic: $U(r_{12}) = \frac{q_1 q_2}{4\pi\varepsilon_0 r_{12}}$
   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

Collisions

2. **Relative Motion & Frames of Reference:** A body moves with velocity v in frame S; in frame S' the velocity is v'; if V_0' is the velocity of frame S' relative to S, therefore: $v = V_0' + v'$
3. **Elastic Collision**
   Conserve Kinetic Energy: $\sum \frac{1}{2} m v^2 = \sum \frac{1}{2} m v^2$
   Conserve Momentum: $\sum m\,v_i = \sum m\,v_i$
4. **Impulse** is a force acting over time
   Impulse $= F\,\Delta t$ **or** $\int F(t)\,dt$
   Impulse is also the **momentum change:** $p_{fin} - p_{init}$

Study Guide Vocab Review Physics

VM Jensen

Study Guide Vocab Review Physics:

Solid-state Physics and Engineering Craig T. Van Degrift,1995 This book is a supplement to the textbook Basic Technical Japanese It introduces 100 new kanji and more than 700 new words and phrases that appear frequently in documents dealing with solid state physics The text offers ten lessons each presenting key vocabulary and ten new kanji that reappear in the exercises for that lesson and in subsequent lessons reinforcing learning The exercises emphasize vocabulary building kanji recognition definition matching and translation skills An introductory lesson reviews the katakana and hiragana writing systems The lessons in this book have been keyed to the final ten chapters of Basic Technical Japanese so that students can use the two volumes together to build a Japanese vocabulary and to practice translation related to solid state physics and engineering **Help Students Improve Their Study Skills** Jane Dupree,2013-10-28 A practical and accessible insight into the different ways that students learn This book offers advice and guidance needed to support effectively the reading skills writing skills memory revision and exam technique of your pupils in order for them to take responsibility competently for their own study It includes photocopiable resources for use in practice within the secondary classroom examples of children s work that transfer theory into a classroom context advice and guidance on effective study support with no prior knowledge of learning styles and theories required fully inclusive strategies that can be used with pupils of all abilities **Polymer Science and Engineering** Robert Byron Bird,Sigmund Floyd,1995 This book is a supplement to the textbook Basic Technical Japanese It introduces an additional 100 kanji that are important in building vocabulary for reading and translating the Japanese literature on polymer science and engineering The text offers ten lessons each of which introduces ten new kanji as well as exercises for mastering them The new kanji are printed in very large type at the beginning of each chapter so that the reader can see clearly how the characters are structured The exercises include several kinds of matching as well as translation of sentences and short paragraphs Full translations of some exercises allow learners to evaluate their own work In addition a list of thirty five more kanji related to polymer science is provided at the end of the book Intended for self study the book provides a complete on kun index of all 135 kanji which enables learners if they know the pronunciation of a word to locate the introductory discussion of the corresponding kanji in the book

Gendai Kagaku Gijutsu Nihongo Shirīzu Edward E. Daub,1995 Designed as a companion and study guide for the textbook Comprehending Technical Japanese this book may also be used as a supplement to the textbook Basic Technical Japanese It provides detailed explanations of the origin and meaning of the 500 kanji featured in CTJ which were chosen for their frequency and significance in chemistry physics and biology Each chapter is keyed to a chapter in CTJ presenting twenty kanji vocabulary that use those kanji a kanji card format for study and review and the Japanese essay that appears at the close of each CTJ chapter and its English translation This volume also introduces significant scientific vocabulary that include kanji other than the 500 introduced in CTJ **United States Merchant Marine Academy Tests** Arco Publishing

Company,1956 **Nurse (practical and Public Health) Student Nurse** Arco Publishing Company,1961 *Police Promotion* Joseph A. Murray,1962 **How to Qualify for United States Air Force Academy** Arco Publishing Company,1955 **Prison Guard** ,1956 Policewoman Arco Publishing Company,1955 **Sergeant, Police Department** Arco Publishing Company,1955 **War Service Scholarships** Arco Publishing Company,1955 *How to Win a College Scholarship* David Reuben Turner,Harry A. Tarr,1958 The Publishers' Trade List Annual ,1893 **The Publishers Weekly** ,1896 *Insurance Broker* Arthur Liebers,1957 *Publishers' Weekly* ,1904 **Physics Vocabulary Workbook** Lewis Morris, Learn the Secret to Success on the Physics Course and Exams Ever wonder why learning comes so easily to some people This remarkable workbook reveals a system that shows you how to learn faster easier and without frustration By mastering the hidden language of the subject and exams you will be poised to tackle the toughest of questions with ease We ve discovered that the key to success on the Physics Course and Exams lies with mastering the Insider s Language of the subject People who score high on their exams have a strong working vocabulary in the subject tested They know how to decode the vocabulary of the subject and use this as a model for test success People with a strong Insider s Language consistently Perform better on their Exams Learn faster and retain more information Feel more confident in their courses Perform better in upper level courses Gain more satisfaction in learning The Physics Vocabulary Workbook is different from traditional review books because it focuses on the exam s Insider s Language It is an outstanding supplement to a traditional review program It helps your preparation for the exam become easier and more efficient The strategies puzzles and questions give you enough exposure to the Insider Language to use it with confidence and make it part of your long term memory The Physics Vocabulary Workbook is an awesome tool to use before a course of study as it will help you develop a strong working Insider s Language before you even begin your review Learn the Secret to Success After nearly 20 years of teaching Lewis Morris discovered a startling fact Most students didn t struggle with the subject they struggled with the language It was never about brains or ability His students simply didn t have the knowledge of the specific language needed to succeed Through experimentation and research he discovered that for any subject there was a list of essential words that when mastered unlocked a student s ability to progress in the subject Lewis called this set of vocabulary the Insider s Words When he applied these Insider s Words the results were incredible His students began to learn with ease He was on his way to developing the landmark series of workbooks and applications to teach this Insider s Language to students around the world **The High School Quarterly** ,1919 *Educational Times* ,1901

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