

Physics

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(Chapter 1) (Electric Charges and Fields)
(Class 12)

Question 1.13:

Figure shows tracks of three charged particles in a uniform electrostatic field. Give the signs of the three charges. Which particle has the highest charge to mass ratio?



Answer 1.13:

Opposite charges attract each other and same charges repel each other. It can be observed that particles 1 and 2 both move towards the positively charged plate and repel away from the negatively charged plate. Hence, these two particles are negatively charged. It can also be observed that particle 3 moves towards the negatively charged plate and repels away from the positively charged plate. Hence, particle 3 is positively charged.

The charge to mass ratio (emf) is directly proportional to the displacement or amount of deflection for a given velocity. Since the deflection of particle 3 is the maximum, it has the highest charge to mass ratio.

Question 1.14:

Consider a uniform electric field $\mathbf{E} = 3 \times 10^3 \hat{i} \text{ N/C}$.

(a) What is the flux of this field through a square of 10 cm on a side whose plane is parallel to the yz plane?

(b) What is the flux through the same square if the normal to its plane makes a 60° angle with the x -axis?

Answer 1.14:

(a) Electric field intensity, $\mathbf{E} = 3 \times 10^3 \hat{i} \text{ N/C}$

Magnitude of electric field intensity, $|\mathbf{E}| = 3 \times 10^3 \text{ N/C}$

Side of the square, $s = 10 \text{ cm} = 0.1 \text{ m}$

Area of the square, $A = s^2 = 0.01 \text{ m}^2$

The plane of the square is parallel to the y - z plane. Hence, angle between the unit vector normal to the plane and electric field, $\theta = 0^\circ$

Flux (ϕ) through the plane is given by the relation,

$$\phi = |\mathbf{E}|A \cos \theta$$

$$= 3 \times 10^3 \times 0.01 \times \cos 0^\circ = 30 \text{ N m}^2/\text{C}$$

(b) Plane makes an angle of 60° with the x -axis. Hence, $\theta = 60^\circ$

$$\text{Flux, } \phi = |\mathbf{E}|A \cos \theta$$

$$= 3 \times 10^3 \times 0.01 \times \cos 60^\circ$$

$$= 30 \times \frac{1}{2}$$

$$= 15 \text{ N m}^2/\text{C}$$

Question 1.15:

What is the net flux of the uniform electric field of Exercise 1.14 through a cube of side 20 cm oriented so that its faces are parallel to the coordinate planes?

Answer 1.15:

All the faces of a cube are parallel to the coordinate axes. Therefore, the number of field lines entering the cube is equal to the number of field lines piercing out of the cube. As a result, net flux through the cube is zero.

Chapter 1 Solutions Modern Physics

Xiaolong Qi



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An Introduction to

Modern Physics M. Wiedenbeck, 1979 **Classical Mechanics** A. Douglas Davis, 2012-12-02 Classical Mechanics focuses on the use of calculus to solve problems in classical mechanics Topics covered include motion in one dimension and three dimensions the harmonic oscillator vector algebra and vector calculus and systems of particles Coordinate systems and central forces are also discussed along with rigid bodies and Lagrangian mechanics Comprised of 13 chapters this book begins with a crash course or brief refresher in the BASIC computer language and its immediate application to solving the harmonic oscillator The discussion then turns to kinematics and dynamics in one dimension three dimensional harmonic oscillators moving and rotating coordinate systems and central forces in relation to potential energy and angular momentum Subsequent chapters deal with systems of particles and rigid bodies as well as statics Lagrangian mechanics and fluid mechanics The last chapter is devoted to the theory of special relativity and addresses concepts such as spacetime coordinates simultaneity Lorentz transformations and the Doppler effect This monograph is written to help students learn to use calculus effectively to solve problems in classical mechanics **APlusPhysics** Dan Fullerton, 2011-04-28 APlusPhysics Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam Topics covered include pre requisite math and trigonometry kinematics forces Newton's Laws of Motion circular motion and gravity impulse and momentum work energy and power electrostatics electric circuits magnetism waves optics and modern physics Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations this book is integrated with the APlusPhysics.com website which includes online question and answer forums videos animations and supplemental problems to help you master Regents Physics essentials The best physics books are the ones kids will actually read Advance Praise for APlusPhysics Regents Physics Essentials Very well written simple clear engaging and accessible You hit a grand slam with this review book Anthony NY Regents Physics Teacher Does a great job giving students what they need to know The value provided is amazing Tom NY Regents Physics Teacher This was tremendous preparation for my physics test I love the detailed problem solutions Jenny NY Regents Physics Student Regents Physics Essentials has all the information you could ever need and is much easier to understand than many other textbooks it is an excellent review tool and is truly written for students Cat NY Regents Physics Student **Physics for Scientists and Engineers with Modern Physics** Ginsberg, 1994-11 **Computer Problems for Modern Physics** Charles W. Leming, 1990 **Quantum Mechanics** Claude Cohen-Tannoudji, Bernard Diu, Franck Lalœ, 2020 **Modern Fluid Dynamics** Clement Kleinstreuer, 2010-05-21 This textbook covers essentials of traditional and modern fluid dynamics i.e. the fundamentals of and basic applications in fluid mechanics and convection heat transfer with brief excursions into fluid particle dynamics and solid mechanics Specifically it is suggested that the book can be used to enhance the knowledge base and skill level of engineering and physics students in macro scale fluid mechanics see Chaps 1 5 and 10 followed by an int

ductory excursion into micro scale fluid dynamics see Chaps 6 to 9 These ten chapters are rather self contained i e most of the material of Chaps 1 10 or selectively just certain chapters could be taught in one course based on the students background Typically serious seniors and first year graduate students form a receptive audience see sample syllabus Such as target group of students would have had prerequisites in thermodynamics fluid mechanics and solid mechanics where Part A would be a welcomed refresher While introductory fluid mechanics books present the material in progressive order i e employing an inductive approach from the simple to the more difficult the present text adopts more of a deductive approach Indeed understanding the derivation of the basic equations and then formulating the system specific equations with suitable boundary conditions are two key steps for proper problem solutions

Reviews of Modern Physics, 1929 **Modern Physics and Quantum Mechanics** Elmer E. Anderson, 1971 This book is designed to bridge the gap between the descriptive course at the sophomore level and a graduate course in quantum mechanics in which formal operator methods are used freely **A Textbook of Modern Physics** Le Roy Dougherty Weld, Frederic Palmer, 1925 *Physics with Modern Physics for Scientists and Engineers* Richard Wolfson, Jay M. Pasachoff, 1999 **Physics, Classical and Modern** W. Edward Gettys, Frederick J. Keller, Malcolm J. Skove, 1989 **Modern Physics** Raymond A. Serway, Clement J. Moses, Curt A. Moyer, 2005 Provides an introduction to relativity quantum mechanics and statistical physics as well as applications of these theories to molecular physics condensed matter physics nuclear physics particle physics and cosmology **Relativity and Modern Physics** George David Birkhoff, Rudolph Ernest Langer, 1923 **Space-time-matter: Modern Kaluza-klein Theory** Paul S Wesson, 1999-02-01 Einstein endorsed the view of Kaluza that gravity could be combined with electromagnetism if the dimensionality of the world is extended from 4 to 5 Klein applied this idea to quantum theory laying a basis for the various modern versions of string theory Recently work by a group of researchers has resulted in a coherent formulation of 5D relativity in which matter in 4D is induced by geometry in 5D This theory is based on an unrestricted group of 5D coordinate transformations that leads to new solutions and agreement with the classical tests of relativity This book collects together the main technical results on 5D relativity and shows how far we can realize Einstein's vision of physics as geometry **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson's Essential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals

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Douglas C. Giancoli, 2nd Ed Douglas Brandt, Keith Andrew, Leonard E. Storm, 1988 *Quantum Theory of Atomic Structure*
John Clarke Slater, 1960

Reviewing **Chapter 1 Solutions Modern Physics**: Unlocking the Spellbinding Force of Linguistics

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