

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 $E = 3 \times 10^3 \text{ i N/C}$.

(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, $E = 3 \times 10^3 \text{ i N/C}$

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

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,

$$\phi = |E|A \cos \theta$$

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

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

Flux, $\phi = |E|A \cos \theta$

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

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

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

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.

Physics Chapter 1 Test

L Reisser



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Radiation Oncology Murat Beyzadeoglu, Gokhan Ozyigit, Ugur Selek, 2012-05-07 Radiation Oncology MCQs for Exams ROME will cover the essential aspects of radiation physics radiobiology and clinical radiation oncology designed to meet the needs of a large scale of examinees Topics of this new book will be in the order of our previous Basic Radiation Oncology Springer 2010 with additional two new chapters Pediatric tumors and Rare tumors Benign Diseases making a total of 15 chapters and instead of old style question and answer format current MCQ examination pattern helpful for both oral exams and written exams is used in this comprehensive bedside recall book complementing the Basic Radiation Oncology 1st Edition

Tests and Measurements in High School Instruction Giles Murrell Ruch, George Dinsmore Stoddard, 1927 **Resources in Education**, 1992-10 **McGraw-Hill's 3 Evolve Reach (HESI) A2 Practice Tests** Kathy A. Zahler, 2012-12-28 Intensive practice for the entrance exam required by many nursing schools and allied health programs nationwide from the most trusted name in medical nursing publishing 3 full length sample tests that match the actual HESI A2 exam in content format and level of difficulty The only full length sample tests available outside of the official Admission Assessment Exam Review from the test makers Every question categorized by subject matter so students know what topics they need to study Proven tips from seasoned test takers based on their posts in online HESI chat forums **Kaplan GRE Exam 2008 Comprehensive Program** Kaplan, 2007-07-03 Students who turn to Kaplan can depend on the most accurate information on the GRE test change As always Kaplans comprehensive guides combine proven score raising strategies with the latest technology to help students exceed their expectations *Educational Measurements* Daniel Starch, 1918 Bureau of Educational Research. College of Education, 1st Annual Report, Announcement, 1919-20 University of Illinois (Urbana-Champaign campus). Bureau of Educational Research, 1919 *Educational Tests and Measurements* Walter Scott Monroe, James Clarence De Voss, Frederick James Kelly, 1924 **Kaplan GRE Exam** Kaplan, 2006 This text includes review for all content on the GRE reinforced with score raising strategies An online study plan adapts to a student's goals and schedule **Electrical Engineering**, 1911 General Science Quarterly, 1920 *An Experimental Study of the Unit Method of Instruction in the Junior and Senior High Schools* Chester Otto Newlun, 1926 **Intermediate Algebra** Elizabeth Difanis Phillips, Elizabeth D. Phillips, Thomas Butts, Michael Shaughnessy, 1994 A Laboratory Guide in Dairy Industry for Agricultural and Vocational Schools Harold Ellis Ross, 1928 Properties and Testing of Magnetic Materials Thomas Spooner, 1927 **The Bookseller**, 1901 Compend of Mechanical Refrigeration and Engineering John Ewald Siebel, 1918 **The Classroom Teacher at Work in American Schools** George Drayton Strayer, Nickolaus Louis Engelhardt, 1920 **Kaplan GRE Exam 2007-2008** Kaplan Test Prep and Admissions, 2007 Kaplan GRE Exam 2007 2008 Premier Program is the first guide on the market with details on the GRE exam scheduled to release in the fall of 2007 including customized advice about which test would best compliment students test taking style and maximize their score This

comprehensive guide includes a CD ROM with additional questions as well as an interactive online study planner that provides fresh practice questions every month and quizzes that can be downloaded to PDAs and cellphones for test prep anytime anywhere Also included are Kaplan s exclusive test taking strategies covering the current CAT plus the new linear exam for achieving a higher score and a diagnostic test to help students decide specifically which exam the current or the new would be best for them Features Diagnostic test featuring new question types for the new GRE to help students determine which exam is best for them Essential tactics for the computer adaptive test CAT format PLUS details on the new linear format releasing in the fall of 2007 5 full length practice tests 1 in the book 1 online 3 on the CD ROM Over 300 additional practice questions Detailed answer explanations Personalized online progress report that adapts to a student s goals and schedule

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