Physics

(www.tiwariacademy.com) (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 × 103 f 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 × 10³ î N/C

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

Side of the square, s = 10 cm = 0.1 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, θ = 60°

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.

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Table of Contents Physics Chapter 1 Test

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

- Physics Chapter 1 Test eBook Subscription Services
- Physics Chapter 1 Test Budget-Friendly Options
- 6. Navigating Physics Chapter 1 Test eBook Formats
 - o ePub, PDF, MOBI, and More
 - Physics Chapter 1 Test Compatibility with Devices
 - Physics Chapter 1 Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Chapter 1 Test
 - Highlighting and Note-Taking Physics Chapter 1 Test
 - Interactive Elements Physics Chapter 1 Test
- 8. Staying Engaged with Physics Chapter 1 Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Chapter 1 Test
- 9. Balancing eBooks and Physical Books Physics Chapter 1 Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Chapter 1 Test
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Chapter 1 Test
 - Setting Reading Goals Physics Chapter 1 Test
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Chapter 1 Test
 - Fact-Checking eBook Content of Physics Chapter 1 Test
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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