

Chapter 1

Problem 1.1 Four identical point charges q are placed at the corners of a square with side a . Find the net force (magnitude and direction) acting on each of the charges, and the potential energy of the system. The charges are located in vacuum.

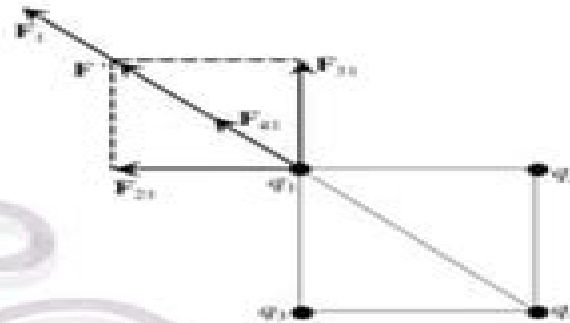


Figure 1S.1 Forces acting on charge q_1 from charges q_2 , q_3 , and q_4 .

Solution Figure 1S.1 illustrates the forces exerted by charges q_2 , q_3 , and q_4 on charge q_1 . Since the charges are equal to each other and two of them (q_2 and q_3) are at the same distance from charge q_1 , it follows that the magnitude of forces F_{21} and F_{31} are equal to each other:

$$F_{21} = F_{31} = \frac{q_1 q_2}{4\pi\epsilon_0 a^2}.$$

The distance between the charges q_1 and q_4 is equal to $a\sqrt{2}$. The magnitude of force F_{41} is equal to:

$$F_{41} = \frac{q_1 q_4}{4\pi\epsilon_0 2a^2}.$$

In order to find the resultant of all the forces it is necessary to add vectors:

$$\mathbf{F}_{21} + \mathbf{F}_{31} + \mathbf{F}_{41} = \mathbf{F}_1$$

Introductory Electromagnetics Answers

David Kirk



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Table of Contents Introductory Electromagnetics Answers

1. Understanding the eBook Introductory Electromagnetics Answers
 - The Rise of Digital Reading Introductory Electromagnetics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Introductory Electromagnetics Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introductory Electromagnetics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introductory Electromagnetics Answers
 - Personalized Recommendations
 - Introductory Electromagnetics Answers User Reviews and Ratings
 - Introductory Electromagnetics Answers and Bestseller Lists

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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introductory Electromagnetics Answers
 - Highlighting and Note-Taking Introductory Electromagnetics Answers
 - Interactive Elements Introductory Electromagnetics Answers
8. Staying Engaged with Introductory Electromagnetics Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introductory Electromagnetics Answers
9. Balancing eBooks and Physical Books Introductory Electromagnetics Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introductory Electromagnetics Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introductory Electromagnetics Answers
 - Setting Reading Goals Introductory Electromagnetics Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introductory Electromagnetics Answers
 - Fact-Checking eBook Content of Introductory Electromagnetics Answers
 - 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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