GRIFFITHS ELECTRODYNAMICS SOLUTIONS

KALMAN KNIZHNIK

Problem 2.1

a) Twelve equal charges, q are situated at the corners of a regular 12-sided polygon (for instance, one on each numeral of a clock face.) What is the net force on a test charge Q at the center?

The force on Q must be 0 by symmetry. The x, y, and z components of the fields due to each charge cancel, so the force vanishes.

b) Suppose one of the 12 q's is removed (the one at "6 o'clock"). What is the force on Q? Explain your reasoning carefully.

Now it is like 10 of the charges cancel, the only one that doesn't cancel being the one directly opposite the missing charge. Thus, the force is

$$F = \frac{1}{4\pi\epsilon_0} \frac{qQ}{r^2} \quad \Box \quad (1)$$

pointing in the direction of the missing charge. Here, r is the distance from the center to each charge.

c) Now 13 equal charges, q, are placed at the corners of a regular 13-sided polygon. What is the force on a test charge Q at the center.

Again, by symmetry, the answer is still 0.

d) If one of the 13 q's is removed, what is the force on Q? Explain your reasoning. The same answer as in part b, equation 1, and for the same reason.

Problem 2.2

a) Find the electric field (magnitude and direction) a distance z above the midpoint between two equal charges, q, a distance d apart. Check that your result is consistent with what you'd expect when z > d.

The force would not have components in the y or x direction, if we put the charges in the x-zplane, there is no y-component of the field at the point in question, and the x-components cancel. The z-component of the field is

$$\mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{2q}{z^2 + (d/2)^2} sin(\theta) \dot{\mathbf{z}} = \frac{1}{4\pi\epsilon_0} \frac{2qz}{(z^2 + (d/2)^2)^{3/2}} \dot{\mathbf{z}}$$
 (2)

where the factor of 2 comes from adding up the two charges. When $z \gg d$, the electric field becomes

$$\mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{2q}{z^2} \dot{\mathbf{z}}$$
(3)

which is what you would expect, since the system acts like a point charge of charge 2q.

b) Repeat part (a), only this time make the right hand charge -q instead of +q. Now the z-components cancel and the x-components don't. Mathematically, this means replacing sin(θ) with cos(θ).

$$\mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{2q}{z^2 + (d/2)^2} \cos(\theta) \hat{\mathbf{z}} = \frac{1}{4\pi\epsilon_0} \frac{qd}{(z^2 + (d/2)^2)^{3/2}} \hat{\mathbf{x}}$$
 (4)

where the 2 has canceled out with the d/2 that comes from the cosine. If $z \gg d$, then from far away it looks like a dipole, and the field reduces to that of a dipole:

$$\mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{qd}{z^3} \hat{\mathbf{x}}$$
(5)

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Mike Jess

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of the book is obtained from the following principles Base the theory on the concept of force and mutual interaction Connect the theory to experiments and observations accessible to the student Treat the electric magnetic and inductive phenomena cohesively with respect to force energy dipoles and material Present electrodynamics using the same principles as in the preceding mechanics course Aim at explaining that theory of relativity is based on the magnetic effect Introduce field theory after the basic phenomena have been explored in terms of force Although electrodynamics is described in this book from its 1st principles prior knowledge of about one semester of university studies in mathematics and physics is required including vector algebra integral and differential calculus as well as a course in mechanics treating Newton's laws and the energy principle The target groups are physics and engineering students as well as professionals in the field such as high school teachers and employees in the telecom industry Chemistry and computer science students may also benefit from the book

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Table of Contents Manual Solution For Electrodynamic

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

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

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