

## CHAPTER 2

- 2.1. Three point charges are positioned in the  $x$ - $y$  plane as follows: 5nC at  $y = 5$  cm, -10 nC at  $y = -5$  cm, 15 nC at  $x = -5$  cm. Find the required  $x$ - $y$  coordinates of a 20-nC fourth charge that will produce a zero electric field at the origin.

With the charges thus configured, the electric field at the origin will be the superposition of the individual charge fields:

$$\mathbf{E}_0 = \frac{1}{4\pi\epsilon_0} \left[ \frac{15}{(5)^2} \mathbf{a}_x - \frac{5}{(5)^2} \mathbf{a}_y - \frac{10}{(5)^2} \mathbf{a}_y \right] = \frac{1}{4\pi\epsilon_0} \left( \frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] \quad \text{nC/m}$$

The field,  $\mathbf{E}_{20}$ , associated with the 20-nC charge (evaluated at the origin) must exactly cancel this field, so we write:

$$\mathbf{E}_{20} = \frac{-1}{4\pi\epsilon_0} \left( \frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] = \frac{-20}{4\pi\epsilon_0 \rho^2} \left( \frac{1}{\sqrt{2}} \right) [\mathbf{a}_x - \mathbf{a}_y]$$

From this, we identify the distance from the origin:  $\rho = \sqrt{100/(3\sqrt{2})} = 4.85$ . The  $x$  and  $y$  coordinates of the 20-nC charge will both be equal in magnitude to  $4.85/\sqrt{2} = 3.43$ . The coordinates of the 20-nC charge are then (3.43, -3.43).

- 2.2. Point charges of 1nC and -2nC are located at (0,0,0) and (1,1,1), respectively, in free space. Determine the vector force acting on each charge.

First, the electric field intensity associated with the 1nC charge, evaluated at the -2nC charge location is:

$$\mathbf{E}_{12} = \frac{1}{4\pi\epsilon_0(3)} \left( \frac{1}{\sqrt{3}} \right) (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nC/m}$$

in which the distance between charges is  $\sqrt{3}$  m. The force on the -2nC charge is then

$$\mathbf{F}_{12} = q_2 \mathbf{E}_{12} = \frac{-2}{12\sqrt{3}\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) = \frac{-1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}$$

The force on the 1nC charge at the origin is just the opposite of this result, or

$$\mathbf{F}_{21} = \frac{+1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}$$

# Solutions Manual For Elements Engineering Electromagnetics

**M Woodhall**



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## **Table of Contents Solutions Manual For Elements Engineering Electromagnetics**

1. Understanding the eBook Solutions Manual For Elements Engineering Electromagnetics
  - The Rise of Digital Reading Solutions Manual For Elements Engineering Electromagnetics
  - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual For Elements Engineering Electromagnetics
  - 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 Solutions Manual For Elements Engineering Electromagnetics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual For Elements Engineering Electromagnetics
  - Personalized Recommendations
  - Solutions Manual For Elements Engineering Electromagnetics User Reviews and Ratings
  - Solutions Manual For Elements Engineering Electromagnetics and Bestseller Lists
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8. Staying Engaged with Solutions Manual For Elements Engineering Electromagnetics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solutions Manual For Elements Engineering Electromagnetics
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  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solutions Manual For Elements Engineering Electromagnetics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solutions Manual For Elements Engineering Electromagnetics
  - Setting Reading Goals Solutions Manual For Elements Engineering Electromagnetics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Manual For Elements Engineering Electromagnetics
  - Fact-Checking eBook Content of Solutions Manual For Elements Engineering Electromagnetics
  - 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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