

# Fundamentals of Electromagnetics with Engineering Applications 1st Edition Wentworth Solutions Manual

## Solutions for Chapter 2 Problems

### 1. Vectors in the Cartesian Coordinate System

P2.1: Given  $P(4,2,1)$  and  $\mathbf{A}_{PQ} = 2\mathbf{a}_x + 4\mathbf{a}_y + 6\mathbf{a}_z$ , find the point  $Q$ .

$$\mathbf{A}_{PQ} = 2\mathbf{a}_x + 4\mathbf{a}_y + 6\mathbf{a}_z = (Q_x - P_x)\mathbf{a}_x + (Q_y - P_y)\mathbf{a}_y + (Q_z - P_z)\mathbf{a}_z$$

$$Q_x - P_x = Q_x - 4 = 2; \quad Q_x = 6$$

$$Q_y - P_y = Q_y - 2 = 4; \quad Q_y = 6$$

$$Q_z - P_z = Q_z - 1 = 6; \quad Q_z = 7$$

Ans:  $Q(6,6,7)$

P2.2: Given the points  $P(4,1,0)\text{m}$  and  $Q(1,3,0)\text{m}$ , fill in the table and make a sketch of the vectors found in (a) through (f).

|  | Vector   | Mag  | Unit Vector  |
|--|--|------|--|
| a. Find the vector $\mathbf{A}$ from the origin to $P$ | $\mathbf{A}_{OP} = 4\mathbf{a}_x + 1\mathbf{a}_y$          | 4.12 | $\mathbf{a}_{OP} = 0.97\mathbf{a}_x + 0.24\mathbf{a}_y$  |
| b. Find the vector $\mathbf{B}$ from the origin to $Q$ | $\mathbf{B}_{OQ} = 1\mathbf{a}_x + 3\mathbf{a}_y$          | 3.16 | $\mathbf{a}_{OQ} = 0.32\mathbf{a}_x + 0.95\mathbf{a}_y$  |
| c. Find the vector $\mathbf{C}$ from $P$ to $Q$        | $\mathbf{C}_{PQ} = -3\mathbf{a}_x + 2\mathbf{a}_y$         | 3.61 | $\mathbf{a}_{PQ} = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$ |
| d. Find $\mathbf{A} + \mathbf{B}$                      | $\mathbf{A} + \mathbf{B} = 5\mathbf{a}_x + 4\mathbf{a}_y$  | 6.4  | $\mathbf{a} = 0.78\mathbf{a}_x + 0.62\mathbf{a}_y$       |
| e. Find $\mathbf{C} - \mathbf{A}$                      | $\mathbf{C} - \mathbf{A} = -7\mathbf{a}_x + 1\mathbf{a}_y$ | 7.07 | $\mathbf{a} = -0.99\mathbf{a}_x + 0.14\mathbf{a}_y$      |
| f. Find $\mathbf{B} - \mathbf{A}$                      | $\mathbf{B} - \mathbf{A} = -3\mathbf{a}_x + 2\mathbf{a}_y$ | 3.6  | $\mathbf{a} = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$      |

a.  $\mathbf{A}_{OP} = (4-0)\mathbf{a}_x + (1-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 4\mathbf{a}_x + 1\mathbf{a}_y$ .

$$|\mathbf{A}_{OP}| = \sqrt{4^2 + 1^2} = \sqrt{17} = 4.12$$

$$\mathbf{a}_{OP} = \frac{4}{\sqrt{17}}\mathbf{a}_x + \frac{1}{\sqrt{17}}\mathbf{a}_y = 0.97\mathbf{a}_x + 0.24\mathbf{a}_y$$

(see Figure P2.2ab)

b.  $\mathbf{B}_{OQ} = (1-0)\mathbf{a}_x + (3-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 1\mathbf{a}_x + 3\mathbf{a}_y$ .

$$|\mathbf{B}_{OQ}| = \sqrt{1^2 + 3^2} = \sqrt{10} = 3.16$$

$$\mathbf{a}_{OQ} = \frac{1}{\sqrt{10}}\mathbf{a}_x + \frac{3}{\sqrt{10}}\mathbf{a}_y = 0.32\mathbf{a}_x + 0.95\mathbf{a}_y$$

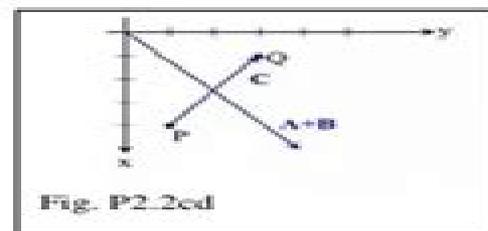
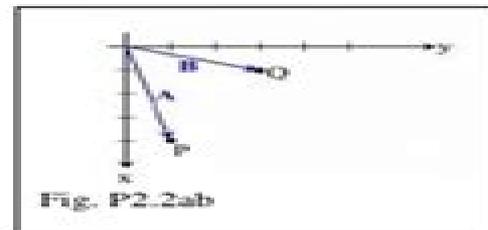
(see Figure P2.2ab)

c.  $\mathbf{C}_{PQ} = (1-4)\mathbf{a}_x + (3-1)\mathbf{a}_y + (0-0)\mathbf{a}_z = -3\mathbf{a}_x + 2\mathbf{a}_y$ .

$$|\mathbf{C}_{PQ}| = \sqrt{3^2 + 2^2} = \sqrt{13} = 3.61$$

$$\mathbf{a}_{PQ} = \frac{-3}{\sqrt{13}}\mathbf{a}_x + \frac{2}{\sqrt{13}}\mathbf{a}_y = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$$

(see Figure P2.2cd)



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**RJ Shavelson**



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## **Table of Contents Fundamentals Of Engineering Electromagnetics Exercise Solutions**

1. Understanding the eBook Fundamentals Of Engineering Electromagnetics Exercise Solutions
  - The Rise of Digital Reading Fundamentals Of Engineering Electromagnetics Exercise Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Engineering Electromagnetics Exercise Solutions
  - 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 Fundamentals Of Engineering Electromagnetics Exercise Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Engineering Electromagnetics Exercise Solutions
  - Personalized Recommendations
  - Fundamentals Of Engineering Electromagnetics Exercise Solutions User Reviews and Ratings
  - Fundamentals Of Engineering Electromagnetics Exercise Solutions and Bestseller Lists

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