

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

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

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

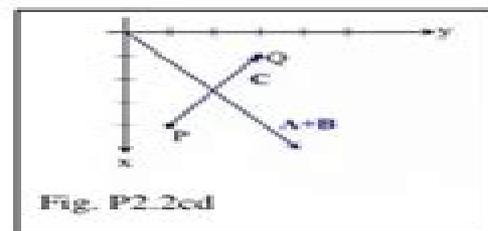
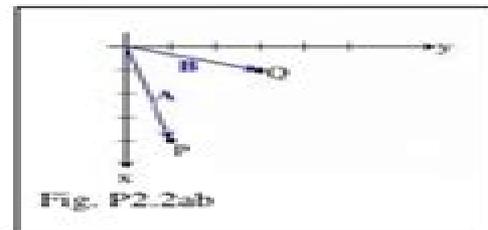
(see Figure P2.2ab)

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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Table of Contents Fundamentals Of Engineering Electromagnetics Lecture Notes

1. Understanding the eBook Fundamentals Of Engineering Electromagnetics Lecture Notes
 - The Rise of Digital Reading Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Engineering Electromagnetics Lecture Notes
 - 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 Lecture Notes
 - User-Friendly Interface

4. Exploring eBook Recommendations from Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Personalized Recommendations
 - Fundamentals Of Engineering Electromagnetics Lecture Notes User Reviews and Ratings
 - Fundamentals Of Engineering Electromagnetics Lecture Notes and Bestseller Lists
5. Accessing Fundamentals Of Engineering Electromagnetics Lecture Notes Free and Paid eBooks
 - Fundamentals Of Engineering Electromagnetics Lecture Notes Public Domain eBooks
 - Fundamentals Of Engineering Electromagnetics Lecture Notes eBook Subscription Services
 - Fundamentals Of Engineering Electromagnetics Lecture Notes Budget-Friendly Options
6. Navigating Fundamentals Of Engineering Electromagnetics Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Engineering Electromagnetics Lecture Notes Compatibility with Devices
 - Fundamentals Of Engineering Electromagnetics Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Highlighting and Note-Taking Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Interactive Elements Fundamentals Of Engineering Electromagnetics Lecture Notes
8. Staying Engaged with Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Engineering Electromagnetics Lecture Notes
9. Balancing eBooks and Physical Books Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Engineering Electromagnetics Lecture Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Setting Reading Goals Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Fundamentals Of Engineering Electromagnetics Lecture Notes
 - Fact-Checking eBook Content of Fundamentals Of Engineering Electromagnetics Lecture Notes
 - 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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contents

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