# 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 A<sub>PQ</sub>=2a<sub>1</sub> +4a<sub>2</sub> +6a<sub>2</sub>, find the point Q.

$$A_{PQ} = 2 a_x + 4 a_y + 6 a_z = (Q_x - P_x)a_x + (Q_y - P_y)a_y + (Q_z - P_z)a_z$$
  
 $Q_x - P_x = Q_x - 4 = 2$ ;  $Q_x = 6$   
 $Q_y - P_y = Q_y - 2 = 4$ ;  $Q_y = 6$   
 $Q_z - P_z = Q_z - 1 = 6$ ;  $Q_z = 7$   
 $Ans: Q(6,6,7)$ 

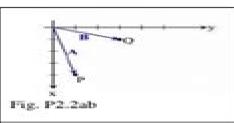
P2.2: Given the points P(4,1,0)m and Q(1,3,0)m, fill in the table and make a sketch of the vectors found in (a) through (f).

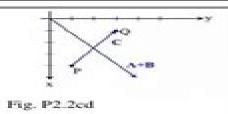
	Vector	Mag	Unit Vector
a. Find the vector A from the origin to P	$\mathbf{A}_{\mathrm{OP}} = 4  \mathbf{a}_{\mathrm{x}} + 1  \mathbf{a}_{\mathrm{y}}$	4.12	$A_{OP} = 0.97 a_x + 0.24 a_y$
b. Find the vector <b>B</b> from the origin to Q	$\mathbf{B}_{\mathrm{OQ}} = 1 \ \mathbf{a}_{x} + 3 \ \mathbf{a}_{y}$	3.16	$\mathbf{a}_{OQ} = 0.32 \ \mathbf{a}_x + 0.95 \ \mathbf{a}_y$
c. Find the vector 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 A + B	$A + B = 5 a_x + 4 a_y$	6.4	$a = 0.78 a_x + 0.62 a_y$
e. Find C – A	$C - A = -7 a_x + 1 a_y$	7.07	$a = -0.99 a_x + 0.14 a_y$
f. Find B - A	$B - A = -3 a_x + 2 a_y$	3.6	$a = -0.83 a_x + 0.55 a_y$

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. 
$$\mathbf{B}_{OQ} = (1-0)\mathbf{a}_x + (3-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 1 \ \mathbf{a}_x + 3 \ \mathbf{a}_y.$$
  
 $\left|\mathbf{B}_{OQ}\right| = \sqrt{1^2 + 3^2} = \sqrt{10} = 3.16$   
 $\mathbf{a}_{OQ} = \frac{1}{\sqrt{10}}\mathbf{a}_x + \frac{3}{\sqrt{10}}\mathbf{a}_y = 0.32\mathbf{a}_x + 0.95\mathbf{a}_y$   
(see Figure P2.2ab)

c. 
$$C_{PQ} = (1-4)\mathbf{a}_x + (3-1)\mathbf{a}_y + (0-0)\mathbf{a}_z = -3 \mathbf{a}_x + 2 \mathbf{a}_y$$
.  
 $|C_{PQ}| = \sqrt{3^2 + 2^2} = \sqrt{13} = 3.61$   
 $\mathbf{a}_{PQ} = \frac{-3}{\sqrt{13}}\mathbf{a}_x + \frac{2}{\sqrt{13}}\mathbf{a}_y = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$   
(see Figure P2.2cd)





# <u>Instructor Solution Manual For Advanced Engineering</u> <u>Electromagnetic</u>

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# **Table of Contents Instructor Solution Manual For Advanced Engineering Electromagnetic**

- 1. Understanding the eBook Instructor Solution Manual For Advanced Engineering Electromagnetic
  - The Rise of Digital Reading Instructor Solution Manual For Advanced Engineering Electromagnetic
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Instructor Solution Manual For Advanced Engineering Electromagnetic
  - 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 Instructor Solution Manual For Advanced Engineering Electromagnetic
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Instructor Solution Manual For Advanced Engineering Electromagnetic
  - Personalized Recommendations
  - Instructor Solution Manual For Advanced Engineering Electromagnetic User Reviews and Ratings
  - Instructor Solution Manual For Advanced Engineering Electromagnetic and Bestseller Lists
- 5. Accessing Instructor Solution Manual For Advanced Engineering Electromagnetic Free and Paid eBooks
  - Instructor Solution Manual For Advanced Engineering Electromagnetic Public Domain eBooks
  - Instructor Solution Manual For Advanced Engineering Electromagnetic eBook Subscription Services
  - Instructor Solution Manual For Advanced Engineering Electromagnetic Budget-Friendly Options

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