

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 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 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 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	$\mathbf{A} + \mathbf{B} = 5 \mathbf{a}_x + 4 \mathbf{a}_y$	6.4	$\mathbf{a} = 0.78 \mathbf{a}_x + 0.62 \mathbf{a}_y$
e. Find C - 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 B - 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. $\mathbf{B}_{OQ} = (1-0)\mathbf{a}_x + (3-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 1 \mathbf{a}_x + 3 \mathbf{a}_y$.

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

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

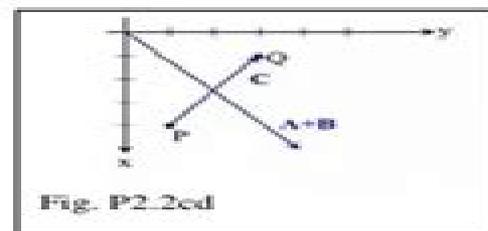
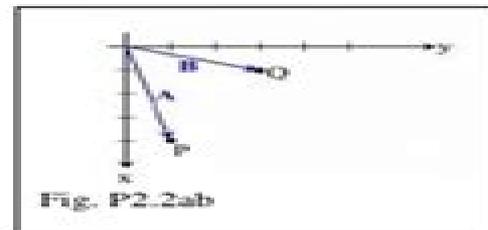
(see Figure P2.2ab)

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)



Fundamentals Of Engineering Electromagnetics Exercise Solutions

Jin-Ying Zhang



Fundamentals Of Engineering Electromagnetics Exercise Solutions:

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automatic transfer switch working types circuit its - May 02 2022

web types of automatic transfer switches automatic transfer switches are available in three types compact ats cb ats and contactor ats where each type is discussed below compact ats the compact automatic transfer switch is also called a change over switch which is used for breaking short circuits currents

technical specification 033 automatic transfer switch - Jun 15 2023

web automatic transfer switch functional requirements the ats shall automatically transfer the load to the standby emergency generator in the event of a utility supply failure and return the load back to the normal utility supply upon restoration of normal utility power

automatic transfer switches ats power switch eaton - Mar 12 2023

web eaton s automatic transfer switches ats are ul 1008 listed for use in emergency legally required cops or standby power systems and designed to transfer critical electrical loads between preferred and alternate generator power sources the atss

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are available up to 5000a including service entrance and bypass isolation types

specification for states mfg automatic transfer switch - Oct 07 2022

web a provide automatic transfer switch ats with voltage 600v maximum amperage 3000a maximum interrupting rating

100ka maximum and number of switched poles 3 or 4 as shown on the plans