

P. 8.1.1

$$(a) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = \mathbf{0}$$

$$|\mathbf{r}| = |\mathbf{0}| = \sqrt{0+0+0} = 0$$

$$(b) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = \mathbf{0}$$

$$(c) \quad \text{The component of } \mathbf{r} \text{ along } \mathbf{a} \text{ is } \quad \mathbf{r}_a = \mathbf{0}$$

$$(d) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = \mathbf{0}$$

A unit vector parallel to this vector is

$$\begin{aligned} \mathbf{e}_r &= \frac{(\mathbf{P}, \mathbf{a})\mathbf{a}}{\sqrt{0+0+0}} \\ &= \frac{0\mathbf{e}_1 + 0\mathbf{e}_2 + 0\mathbf{e}_3}{0} = \mathbf{0} \end{aligned}$$

P. 8.1.2 (a) The distance vector

$$\begin{aligned} \mathbf{r}_{PQ} &= \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} \\ &= -2\mathbf{a}_1 - \mathbf{a}_2 + 2\mathbf{a}_3 \end{aligned}$$

$$(b) \quad \text{The distance between } Q \text{ and } P \text{ is}$$

$$|\mathbf{r}_{PQ}| = \sqrt{4+1+4} = 3$$

$$(c) \quad \text{Vector } \mathbf{e}_{PQ} = \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = -2\mathbf{a}_1 - \mathbf{a}_2 + 2\mathbf{a}_3$$

$$\cos \theta_{PQ} = \frac{\mathbf{r}_P \cdot \mathbf{r}_{PQ}}{|\mathbf{r}_P||\mathbf{r}_{PQ}|} = \frac{7}{3\sqrt{11}}$$

$$\theta_{PQ} = 75.92^\circ$$

$$(d) \quad \mathbf{r}_{PQ} = 3\mathbf{e}_{PQ} = \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = -2\mathbf{a}_1 - \mathbf{a}_2 + 2\mathbf{a}_3$$

$$= 2\mathbf{a}_1$$

Solution Manual Sadiku Engineering Electromagnetics

Nannapaneni Narayana Rao



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