

CHAPTER 2

- 2.1.** Three point charges are positioned in the x - y plane as follows: 5 nC at $y = 5\text{ cm}$, -10 nC at $y = -5\text{ cm}$, 15 nC at $x = -5\text{ cm}$. Find the required x - y coordinates of a 20-nC fourth charge that will produce a zero electric field at the origin.

With the charges thus configured, the electric field at the origin will be the superposition of the individual charge fields:

$$\mathbf{E}_0 = \frac{1}{4\pi\epsilon_0} \left[\frac{15}{(5)^2} \mathbf{a}_x - \frac{5}{(5)^2} \mathbf{a}_y - \frac{10}{(5)^2} \mathbf{a}_y \right] = \frac{1}{4\pi\epsilon_0} \left(\frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] \quad \text{nC/m}$$

The field, \mathbf{E}_{20} , associated with the 20-nC charge (evaluated at the origin) must exactly cancel this field, so we write:

$$\mathbf{E}_{20} = \frac{-1}{4\pi\epsilon_0} \left(\frac{3}{5} \right) [\mathbf{a}_x - \mathbf{a}_y] = \frac{-20}{4\pi\epsilon_0 \rho^2} \left(\frac{1}{\sqrt{2}} \right) [\mathbf{a}_x - \mathbf{a}_y]$$

From this, we identify the distance from the origin: $\rho = \sqrt{100/(3\sqrt{2})} = 4.85$. The x and y coordinates of the 20-nC charge will both be equal in magnitude to $4.85/\sqrt{2} = 3.43$. The coordinates of the 20-nC charge are then $(3.43, -3.43)$.

- 2.2.** Point charges of 1 nC and -2 nC are located at $(0,0,0)$ and $(1,1,1)$, respectively, in free space. Determine the vector force acting on each charge.

First, the electric field intensity associated with the 1 nC charge, evaluated at the -2 nC charge location is:

$$\mathbf{E}_{12} = \frac{1}{4\pi\epsilon_0(3)} \left(\frac{1}{\sqrt{3}} \right) (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nC/m}$$

in which the distance between charges is $\sqrt{3}\text{ m}$. The force on the -2 nC charge is then

$$\mathbf{F}_{12} = q_2 \mathbf{E}_{12} = \frac{-2}{12\sqrt{3}\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) = \underline{\underline{\frac{-1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}}}$$

The force on the 1 nC charge at the origin is just the opposite of this result, or

$$\mathbf{F}_{21} = \underline{\underline{\frac{+1}{10.4\pi\epsilon_0} (\mathbf{a}_x + \mathbf{a}_y + \mathbf{a}_z) \quad \text{nN}}}$$

- 2.3.** Point charges of 50 nC each are located at $A(1, 0, 0)$, $B(-1, 0, 0)$, $C(0, 1, 0)$, and $D(0, -1, 0)$ in free space. Find the total force on the charge at A .

The force will be:

$$\mathbf{F} = \frac{(50 \times 10^{-9})^2}{4\pi\epsilon_0} \left[\frac{\mathbf{R}_{CA}}{|\mathbf{R}_{CA}|^3} + \frac{\mathbf{R}_{DA}}{|\mathbf{R}_{DA}|^3} + \frac{\mathbf{R}_{BA}}{|\mathbf{R}_{BA}|^3} \right]$$

where $\mathbf{R}_{CA} = \mathbf{a}_x - \mathbf{a}_y$, $\mathbf{R}_{DA} = \mathbf{a}_x + \mathbf{a}_y$, and $\mathbf{R}_{BA} = 2\mathbf{a}_x$. The magnitudes are $|\mathbf{R}_{CA}| = |\mathbf{R}_{DA}| = \sqrt{2}$, and $|\mathbf{R}_{BA}| = 2$. Substituting these leads to

$$\mathbf{F} = \frac{(50 \times 10^{-9})^2}{4\pi\epsilon_0} \left[\frac{1}{2\sqrt{2}} + \frac{1}{2\sqrt{2}} + \frac{2}{8} \right] \mathbf{a}_x = \underline{\underline{21.5\mathbf{a}_x \mu\text{N}}}$$

where distances are in meters.

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