

CHAPTER 2 COULOMB'S LAW AND ELECTRIC FIELD INTENSITY PROBLEMS

1. The two small plastic spheres shown in Fig. 2-12 are arranged so that they can slide freely along the insulating fiber. Each has a mass of 0.1 g. The spheres are given identical positive charges. (a) If the lower sphere is moving against the lower track while the upper sphere moves to a location 6 cm distant from that track, find the charge on each. (b) If the charges remain the same, what angle should the fiber make with the horizontal to double the separation?

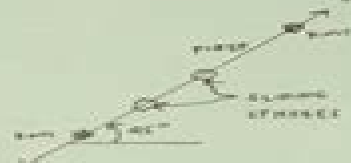
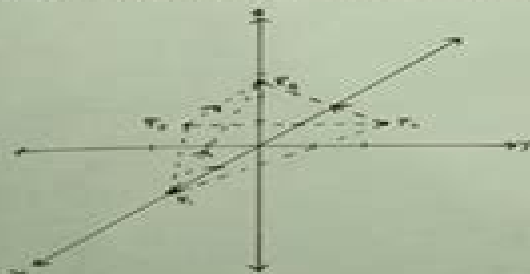


Fig. 2-12

$$\begin{aligned} a) F &= \frac{Q_1 Q_2}{4\pi\epsilon_0 R^2} \\ mg \sin \theta &= \frac{Q^2}{4\pi\epsilon_0 R^2} \\ Q &= \sqrt{mg \sin \theta} \cdot 4\pi\epsilon_0 R^2 \end{aligned}$$

$$\begin{aligned} Q &= \sqrt{(0.0001 \text{ kg})(9.8 \text{ m/s}^2) \left[\sin(45^\circ) \right] (4\pi)(8.854 \times 10^{-12}) (0.06 \text{ m})^2} \\ a) Q &= 16.67 \text{ nC}, \text{ charge on each} \\ b) \sin \theta &= \frac{Q^2}{mg \sin \theta R^2} \rightarrow \sin \theta = \frac{Q^2}{mg R^2} \\ \theta &= \sin^{-1} \left[\frac{Q^2}{mg R^2} \right] \\ &= \sin^{-1} \left[\frac{(16.67 \times 10^{-9})^2}{(0.0001 \text{ kg})(9.8)(0.06)^2} \right] \\ b) \theta &= 10.18^\circ \end{aligned}$$

3. A regular tetrahedron has vertices at $P_1(2, 0, 0)$, $P_2(-1, \sqrt{3}, 0)$, $P_3(-1, -\sqrt{3}, 0)$, and $P_4(0, 0, 2\sqrt{3})$. Charges of 1 nC are located at each of the four vertices. If the configuration is located in free space: (a) find the magnitude of the force on each charge, and (b) the angle between any two edges of the tetrahedron.



$$\begin{aligned} a) \vec{F}_1 &= \frac{Q_1 Q_2}{4\pi\epsilon_0 R_{12}^2} \cdot \hat{a}_{12} \\ F_1 &= \frac{(1 \times 10^{-9})^2}{4\pi\epsilon_0 |\vec{R}_{12}|^2} = \frac{F_{12}}{|\vec{R}_{12}|} \\ \vec{R}_{12} &= (0-2)\hat{a}_x + (0-0)\hat{a}_y + (0-0)\hat{a}_z \\ \vec{R}_{13} &= -2\hat{a}_x + 0\hat{a}_y + 0\hat{a}_z \\ F_2 &= \frac{(1 \times 10^{-9})^2}{(4\pi)(8.854 \times 10^{-12}) (\sqrt{2})^2 + (0-0)^2} \left[\frac{-2\hat{a}_x + 0\hat{a}_y + 0\hat{a}_z}{\sqrt{(2)^2 + (0-0)^2}} \right] \\ \vec{F}_2 &= -152.42 \hat{a}_x + 0 \hat{a}_y + 0 \hat{a}_z \text{ N} \end{aligned}$$

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Problem Solution

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