

**Sol.** (i) According to Gauss's law, the electric flux through a Gaussian surface depends upon the charge enclosed inside the surface and not upon its size. Thus, the electric flux will remain unchanged.

$$\text{Let, } -1.0 \times 10^7 \text{ N-m}^2\text{C}^{-1}.$$

(ii) Using the formula  $\phi = \frac{q}{\epsilon_0}$  (Gauss's theorem), we get

$$\Rightarrow q = \epsilon_0 \phi = 8.854 \times 10^{-12} \times (-1.0 \times 10^7) \\ = -8.854 \times 10^{-5} \text{ C} = -8.85 \mu\text{C}$$

**Example 1.44** A point charge  $q$  is placed at the centre of a cube. What is the flux linked

- (i) with all the faces of the cube?  
 (ii) with each face of the cube?  
 (iii) if charge is not at the centre, then what will be the answers of parts (i) and (ii)?

**Sol.** (i) According to Gauss's law,  $\phi_{\text{total}} = \frac{\Sigma q_i}{\epsilon_0} = \frac{q}{\epsilon_0}$

(ii) The cube is a symmetrical body with 6 faces and the point charge is at its centre, so electric flux linked with each face will be

$$\phi_{\text{each face}} = \frac{\phi_{\text{total}}}{6} = \frac{q}{6\epsilon_0}$$

(iii) If charge is not at the centre, the answer of part (i) will remain same while that of part (ii) will change.

**Example 1.45** A point charge  $Q$  is placed at one corner of a cube. Find flux passing through a cube.

**Sol.** First, make the surface close by placing three identical cubes at three sides of given cube and four cubes above. Now, charge comes at the centre of 8 cubes.

The flux passing through each cube will be (1/8)th of the flux  $Q/\epsilon_0$ . Hence, flux passing through given cube is  $Q/8\epsilon_0$ .

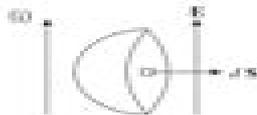


**Example 1.46** A hemispherical body of radius  $R$  is placed in a uniform electric field  $E$ . What is the flux linked with the curved surface, if the field is

- (i) parallel to the base (ii) and perpendicular to the base?

**Sol.** We know, flux passing through closed surface,

$$\phi = \oint \mathbf{E} \cdot d\mathbf{S} = \frac{\Sigma q_i}{\epsilon_0}$$



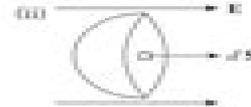
Charge inside hemisphere,  $q_{\text{enc}} = 0$ .

$$\text{Let, } \oint \mathbf{E} \cdot d\mathbf{S} = 0$$

$$\Rightarrow \phi_{\text{curved}} + \phi_{\text{plane}} = 0$$

$$\Rightarrow \phi_{\text{curved}} + E S \cos 90^\circ = 0$$

$$\Rightarrow \phi_{\text{curved}} = 0$$



$$\text{Also, } \phi_{\text{curved}} + \phi_{\text{plane}} = 0$$

$$\Rightarrow \phi_{\text{curved}} + E S \cos 0^\circ = 0$$

$$\Rightarrow \phi_{\text{curved}} + E \pi R^2 = 0$$

$$\Rightarrow \phi_{\text{curved}} = -E \pi R^2$$

## Applications of Gauss's law

To calculate electric field by Gauss's theorem, we will draw a Gaussian surface (either sphere or cylinder, according to the situation) in such a way that electric field is perpendicular at each point of surface and its magnitude is same at every point and then apply Gauss's law. Let us start with some simple cases.

### 1. Electric field due to an infinitely long straight uniformly charged wire

Consider a long line charge with a linear charge density (charge per unit length),  $\lambda$ . To calculate the electric field at a point, located at a distance  $r$  from the line charge, we construct a Gaussian surface, a cylinder of any arbitrary length  $l$  of radius  $r$  and its axis coinciding with the axis of the line charge. This cylinder has three surfaces. One is curved surface and the two plane parallel surfaces.

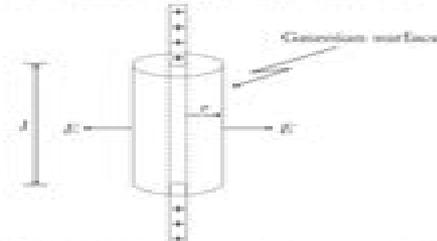


Fig. 1.16 Cylindrical Gaussian surface around a line charge

Field lines at plane parallel surfaces are tangential, so flux passing through these surfaces is zero. The magnitude of electric field is having the same magnitude (say  $E$ ) at

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