

Consider a plane sheet of charge having charge density σ .

And P is the point at distance r from the sheet where we have to find out electric field intensity. Electric field exist both side of sheet so point can be taken any side of the plane sheet.

To apply Gauss's theorem, draw a Gaussian surface in the form of cylinder such that Point P lies on the cross-sectional surface of the cylinder.



Electric Field by Charged infinite sheet

Applying Gauss's theorem

$$\oint \vec{E} \cdot \vec{dS} = \frac{q}{\epsilon_0}$$

This flux can be divided into three parts as per the areas (I, II, III as in figure) of Gaussian surface.

$$\int_I \vec{E} \cdot \vec{dS} + \int_{II} \vec{E} \cdot \vec{dS} + \int_{III} \vec{E} \cdot \vec{dS} = \frac{q}{\epsilon_0}$$

$$\int_I E dS + 0 + \int_{III} E dS = \frac{q}{\epsilon_0}$$

$$ES + ES = \frac{q}{\epsilon_0}$$

$$2ES = \frac{\sigma S}{\epsilon_0}$$

Physics 12 Chapter Electrostatic Notes

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