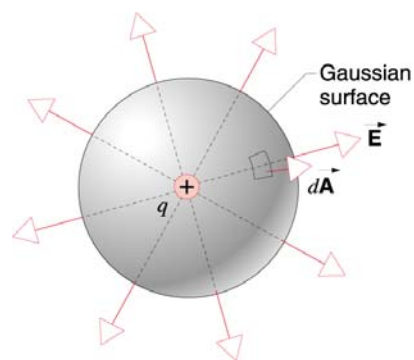


Gauss' law

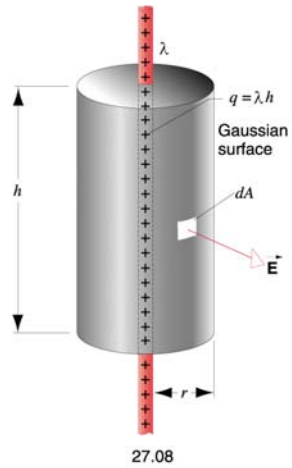
$$\Phi_E = \oint \vec{E} \cdot d\vec{A} = \frac{q}{\epsilon_0}$$

Gauss' law and Coulomb's law

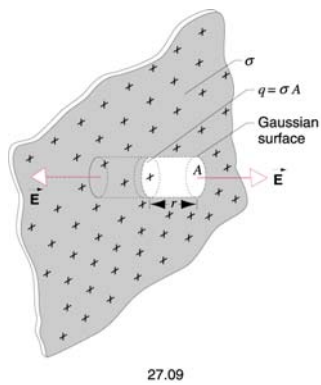


27.07

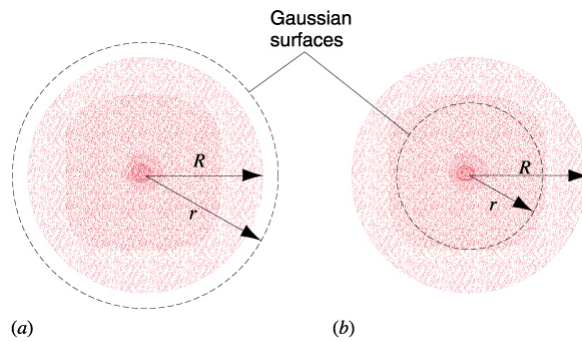
Infinite line of charge



Infinite sheet of charge

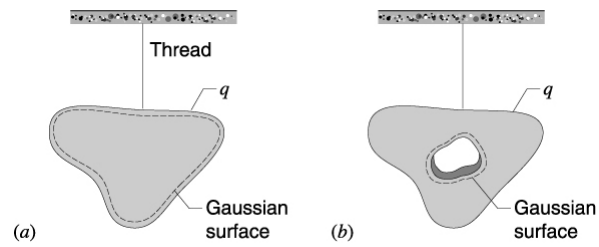


Spherical distribution of charge



27.11

Gauss' law and conductors



27.14