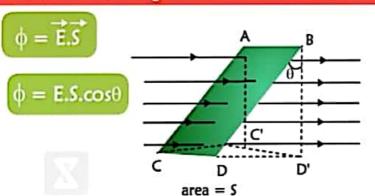
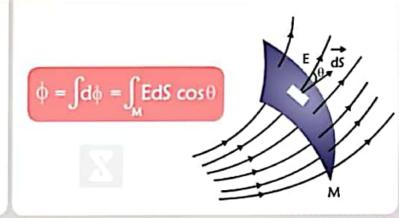
ELECTRIC FLUX

Electric Field Strength in terms of Electric Flux

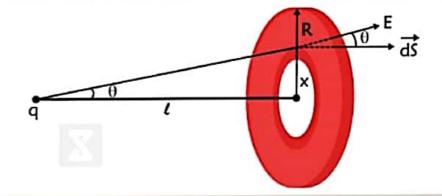


Electric Flux in Non-uniform Electric Field



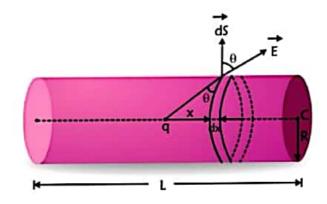
Electric Flux through a Circular Disc

$$\phi = \frac{q}{\epsilon_0} \left[1 - \frac{\ell}{\sqrt{R^2 + x^2}} \right]$$

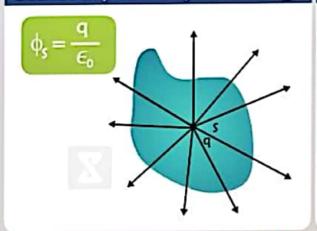


Electric Flux through the Lateral Surface of a Cylinder due to a Point Charge

$$\phi = \frac{q}{\epsilon_0} \cdot \frac{\ell}{\sqrt{R^2 + x^2}}$$



Electric Flux produced by a Point Charge



Flux Calculation in the Region of Varying Electric Field

