Magnitude of Component of
$$\vec{E}$$
 electric field \vec{E} perpendicular to surface through a surface

Angle between \vec{E} and Element of Vector element of normal to surface surface area

Magnitude of Component of \vec{E} perpendicular to surface

Vector element of Surface area

The SI unit for electric flux is $1 \text{ N} \cdot \frac{\text{m}^2}{2}$