Induced \mathcal{E}

- Units of potential difference
- Not a potential difference between two locations
 Direction determined by Lenz's Law

Induced E

Induced $\ensuremath{\mathcal{E}}$ in a conducting loop results in current that produces magnetic field.

Direction of induced current is such that induced field opposes direction of change in magnetic flux.

If $\frac{d\Phi_B}{dt} > 0$, then $\Phi_{Induced}$ is in the opposite direction from Φ_B

If $\frac{d\Phi_B}{dt} < 0$, then $\Phi_{Induced}$ is in the same direction as Φ_B





















