

# Ampère's law (Full Version)



- Conduction current:  $I$ .
- Displacement current:  $I_D = \epsilon_0 \frac{d\Phi_E}{dt}$ .
- Ampère's law:  $\oint \vec{B} \cdot d\vec{\ell} = \mu_0(I + I_D) = \mu_0 I + \mu_0 \epsilon_0 \frac{d\Phi_E}{dt}$ .

