

$$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{free}}{\epsilon_0 \kappa}$$

$$\oint \vec{B} \cdot d\vec{A} = 0$$

$$\oint \vec{E} \cdot d\vec{l} = -\frac{d\phi_B}{dt}$$

$$\oint \vec{B} \cdot d\vec{l} = \mu_0 \kappa_m \left(I + \epsilon_0 \kappa \frac{d\phi_E}{dt} \right)$$