

MAXWELL'S EQUATIONS OF ELECTRICITY & MAGNETISM

Gauss' Law

$$\oiint \mathbf{E} \cdot d\mathbf{A} = \frac{Q}{\epsilon_0}$$

Faraday's Law

$$\oint \mathbf{E} \cdot d\mathbf{s} = -\frac{d\Phi_B}{dt}$$

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$$\oiint \mathbf{B} \cdot d\mathbf{A} = 0$$

No Name Law

$$\oint \mathbf{B} \cdot d\mathbf{s} = \mu_0 \epsilon_0 \frac{d\Phi_E}{dt} + \mu_0 I$$

Ampère's Law

INTEGRAL FORM

MAXWELL'S EQUATIONS OF ELECTRICITY & MAGNETISM

Gauss' Law

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon_0}$$

Faraday's Law

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

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$$\nabla \cdot \mathbf{B} = 0$$

$$\nabla \times \mathbf{B} = \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} + \mu_0 \mathbf{J}$$

No Name Law

Ampère's Law

DIFFERENTIAL FORM