Maxwell's Equations

Static Fields:

	Integral Form	Differential Form
Faraday's Law	$\oint_{c} \overline{E} \cdot d\overline{l} = 0$	$\overline{\nabla} \times \overline{E} = 0$
Ampere's Law	$\oint_{c} \overline{H} \cdot d\overline{l} = \int_{s} \overline{J} \cdot d\overline{s}$	$\overline{\nabla} \times \overline{H} = \overline{J}$
Gauss' Law	$\oint_{s} \overline{D} \cdot d\overline{s} = \int_{V} \rho_{v} dV$	$\overline{\nabla} \cdot \overline{D} = \rho_v$
	$\oint_{s} \overline{B} \cdot d\overline{s} = 0$	$\overline{\nabla} \cdot \overline{B} = 0$