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- (1)  $\nabla \times \mathbf{H} = \mathbf{j} + \frac{\partial \mathbf{E}}{\partial t}$
- (2)  $\nabla \times \mathbf{E} = -\frac{\partial \mathbf{H}}{\partial t}$
- (3)  $\nabla \cdot \mathbf{E} = 0$
- (4)  $\nabla \cdot \mathbf{H} = 0$

(4) These Equations Are Valid

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