

CHAPTER 1

$$\boxed{1.1} \quad \nabla \times \underline{H} = \underline{J}_{ic} + \frac{\partial \underline{D}}{\partial t}$$

Taking the divergence of both sides

$$\nabla \cdot (\nabla \times \underline{H}) = \nabla \cdot \underline{J}_{ic} + \nabla \cdot \frac{\partial \underline{D}}{\partial t} = \nabla \cdot \underline{J}_{ic} + \frac{\partial}{\partial t} \nabla \cdot \underline{D}$$

Using the vector identity of

$$\nabla \cdot (\nabla \times \underline{A}) = 0 \quad \text{and (1-3) we can write that}$$

$$0 = \nabla \cdot \underline{J}_{ic} + \frac{\partial}{\partial t} (q_{ve}) \Rightarrow \boxed{\nabla \cdot \underline{J}_{ic} = - \frac{\partial q_{ve}}{\partial t}}$$

$$\boxed{1.2} \quad \nabla \times \underline{E} = - \underline{M}_i - \frac{\partial \underline{B}}{\partial t}$$

Taking a surface integral of both sides, we can write that

$$\iint_S (\nabla \times \underline{E}) \cdot d\underline{s} = - \iint_S \underline{M}_i \cdot d\underline{s} - \frac{\partial}{\partial t} \iint_S \underline{B} \cdot d\underline{s}$$

Applying Stokes' theorem of (1-7) to the left side of the equation above leads to

$$\oint_C \underline{E} \cdot d\underline{l} = - \iint_S \underline{M}_i \cdot d\underline{s} - \frac{\partial}{\partial t} \iint_S \underline{B} \cdot d\underline{s}$$

Using the same procedure, we can write that

$$\oint_C \underline{H} \cdot d\underline{l} = \iint_S \underline{J}_{ic} \cdot d\underline{s} + \iint_S \underline{J}_{ec} \cdot d\underline{s} + \frac{\partial}{\partial t} \iint_S \underline{D} \cdot d\underline{s}$$

For the remaining three equations of Table 1-1 we proceed as follows:

$$\nabla \cdot \underline{D} = q_{ve}$$

Taking a volume integral of both sides, we can write that

$$\iiint_V \nabla \cdot \underline{D} \, dv = \iiint_V q_{ve} \, dv = Q_e$$

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Paul



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