CHAPTER 1

Taking the divergence of both sides

Using the vector identity of

V- (VXA=0) and (1-3) we can write that

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

[(日xe)·ds =- | m:·ds- 景 B·ds

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

Using the same procedure, we can write that

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

Taking a volume integral of both sides, we can write that $\nabla \cdot \mathcal{D} = g_{ve}$ $\nabla \cdot \mathcal{D} dv = \iiint g_{ve} ds = Q_e$

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