

$$2-1 \quad \underline{w} = \underline{E} \times \underline{H} = \text{Re}[\underline{E} e^{j\omega t}] \times \text{Re}[\underline{H} e^{j\omega t}]$$

Using the identity $\text{Re}[\underline{A} e^{j\omega t}] = \frac{1}{2}[\underline{A} e^{j\omega t} + \underline{A}^* e^{-j\omega t}]$

The instant Poynting vector can be written as

$$\begin{aligned} \underline{w} &= \left\{ \frac{1}{2}[\underline{E} e^{j\omega t} + \underline{E}^* e^{-j\omega t}] \right\} \times \left\{ \frac{1}{2}[\underline{H} e^{j\omega t} + \underline{H}^* e^{-j\omega t}] \right\} \\ &= \frac{1}{2} \left\{ \frac{1}{2}[\underline{E} \times \underline{H}^* + \underline{E}^* \times \underline{H}] + \frac{1}{2}[\underline{E} \times \underline{H} e^{j2\omega t} + \underline{E}^* \times \underline{H}^* e^{-j2\omega t}] \right\} \\ &= \frac{1}{2} \left\{ \frac{1}{2}[\underline{E} \times \underline{H}^* + (\underline{E} \times \underline{H}^*)^*] + \frac{1}{2}[\underline{E} \times \underline{H} e^{j2\omega t} + (\underline{E} \times \underline{H} e^{j2\omega t})^*] \right\} \end{aligned}$$

Using the above identity again, but this time in reverse order,

We can write that

$$\underline{w} = \frac{1}{2} [\text{Re}(\underline{E} \times \underline{H}^*)] + \frac{1}{2} [\text{Re}(\underline{E} \times \underline{H} e^{j2\omega t})]$$

$$2-2. \quad (a) \quad \underline{W}_{\text{rad}} = \frac{1}{2}[\underline{E} \times \underline{H}^*] = \frac{E^2}{2\eta} \hat{a}_r = \frac{5^2 \hat{a}_r}{2(120\pi)} = 0.03315 \hat{a}_r \text{ watts/m}^2$$

$$\begin{aligned} (b) \quad P_{\text{rad}} &= \oint_S \underline{W}_{\text{rad}} \cdot d\underline{S} = \int_0^{2\pi} \int_0^\pi (0.03315)(r^2 \sin\theta \, d\theta \, d\phi) \\ &= \int_0^{2\pi} \int_0^\pi (0.03315)(100)^2 \sin\theta \, d\theta \, d\phi \\ &= 2\pi (0.03315)(100)^2 \int_0^\pi \sin\theta \, d\theta = 2\pi (0.03315)(100)^2 \cdot 2 \\ &= 4165.75 \text{ watts} \end{aligned}$$

$$2-3. \quad (a) \quad D_0 = \frac{4\pi U_{\text{max}}}{P_{\text{rad}}} = \frac{4\pi(200 \times 10^{-3})}{0.9(125.66 \times 10^{-3})} = 22.22 = 13.47 \text{ dB}$$

$$G_0 = \epsilon_r \cdot D_0 = 0.9(22.22) = 20 = 13.01 \text{ dB}$$

$$(b) \quad D_0 = \frac{4\pi U_{\text{max}}}{P_{\text{rad}}} = \frac{4\pi(200 \times 10^{-3})}{(125.66 \times 10^{-3})} = 20 = 13.01 \text{ dB}$$

$$G_0 = \epsilon_r \cdot D_0 = 0.9 \cdot (20) = 18 = 12.55 \text{ dB}$$

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