

29. (a) $\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi)$

$$\begin{aligned}
 \mathbf{E}_{\text{tot}} &= E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi) \frac{e^{-jkr}}{r} \\
 &= E_z \left(\frac{\hat{z}_1 + \hat{z}_2}{\sqrt{2}} \right) \sqrt{2} \frac{e^{-jkr}}{r} \\
 \mathbf{E}_\perp &= \left(\frac{\hat{z}_1 + \hat{z}_2}{\sqrt{2}} \right)
 \end{aligned}$$

(b) $\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi)$

$$\begin{aligned}
 \text{PLP} &= |\mathbf{E}_{\text{tot}}|^2 = \left| \left(\frac{\hat{z}_1 + \hat{z}_2}{\sqrt{2}} \right) \cdot \left(\frac{\hat{z}_1 + \hat{z}_2}{\sqrt{2}} \right) \right|^2 = \left| \frac{\hat{z}_1 + \hat{z}_2}{\sqrt{2}} \right|^2 = \left| \frac{\hat{z}_1}{\sqrt{2}} \right|^2 \\
 \text{PLP} &= \frac{1}{2} = 0.5 = -1.938 \text{ dB}
 \end{aligned}$$

2.41. (a) $\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi) \Rightarrow \mathbf{E}_\perp = \frac{E_z}{\sqrt{2}}(\hat{z}_1 + \hat{z}_2)$

$$\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi) \Rightarrow \mathbf{E}_\perp = \frac{E_z}{\sqrt{2}}(\hat{z}_1 + \hat{z}_2)$$

$$\text{PLP} = \frac{E_z^2}{2} \left[(\hat{z}_1 + \hat{z}_2) \cdot (\hat{z}_1 + \hat{z}_2) \right]^2 = \frac{E_z^2}{2} \left[(\hat{z}_1 \cdot \hat{z}_1 + \hat{z}_2 \cdot \hat{z}_2 + \hat{z}_1 \cdot \hat{z}_2 + \hat{z}_2 \cdot \hat{z}_1) \right]^2$$

Converting the spherical unit vectors to rectangular, as it was done in Problem 2.35, leads to

$$\text{PLP} = \frac{1}{2} \cos^2 \theta \leq 1/2$$

(b) Where

$$\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi)$$

$$\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi)$$

the PLP is equal to

$$\text{PLP} = \frac{1}{2} \cos^2 \theta \leq 1/2$$

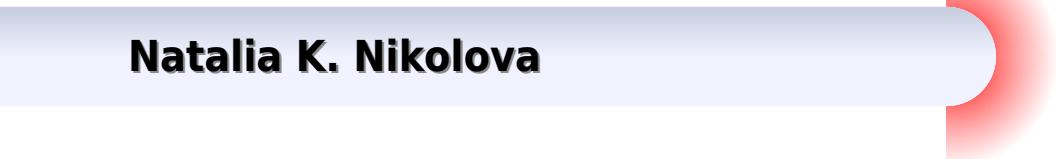
2.42. $\mathbf{E}_{\text{tot}} = E_z(\hat{z}) + \mathbf{E}_\perp(r, \theta, \phi) \Rightarrow \mathbf{E}_\perp = \frac{E_z}{\sqrt{2}}(\hat{z}_1 + \hat{z}_2)$

$$\mathbf{E}_{\text{tot}} = \left[\frac{E_z \cos \theta + E_z \sin \theta \cos \theta}{\sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta}} \right] \sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta} \cdot \hat{r}(r, \theta, \phi)$$

$$\text{Then } \mathbf{E}_\perp = \frac{E_z \cos \theta + E_z \sin \theta \cos \theta}{\sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta}}$$

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Natalia K. Nikolova



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Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE

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