

2.40. (a)  $\mathbf{E}_{\text{tot}}$  is

$$\begin{aligned}
 \mathbf{E}_{\text{tot}} &= E_z(\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}) + E_\rho(\hat{\rho}_z \hat{\mathbf{r}} + \hat{\rho}_\rho \hat{\boldsymbol{\phi}}) \frac{e^{-\rho/\lambda_D}}{\rho} \\
 &= E_z \underbrace{\left( \frac{\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}}{\sqrt{2}} \right)}_{\hat{\mathbf{r}}_z} \sqrt{2} E_\rho (\hat{\rho}_z \hat{\mathbf{r}} + \hat{\rho}_\rho \hat{\boldsymbol{\phi}}) \frac{e^{-\rho/\lambda_D}}{\rho} \\
 \hat{\mathbf{r}}_z &= \left( \frac{\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}}{\sqrt{2}} \right)
 \end{aligned}$$

is identical to

$$\begin{aligned}
 \text{or } \text{PLF} &= |\hat{\mathbf{r}}_z \cdot \hat{\rho}_z|^2 = \left| \left( \frac{\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}}{\sqrt{2}} \right) \cdot \left( \frac{\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}}{\sqrt{2}} \right) \right|^2 = \left| \frac{\hat{\mathbf{z}}_0 \cdot \hat{\mathbf{z}}_0}{2} \right|^2 = \left| \frac{1}{2} \right|^2 \\
 \text{PLF} &= \frac{1}{2} = 0.5 = -1.3010 \text{ dB}
 \end{aligned}$$

2.41. (a)  $\mathbf{E}_{\text{tot}} = E_z(\hat{\mathbf{z}}_0 + \hat{\rho}_z \mathbf{e}^{-j\theta}) + \hat{\rho}_\rho \mathbf{e}^{-j\theta} \Rightarrow \hat{\mathbf{r}}_z = \frac{1}{\sqrt{2}}(\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}})$

$$\mathbf{E}_{\text{tot}} = E_z(\hat{\mathbf{z}}_0 + \hat{\rho}_z \mathbf{e}^{-j\theta}) + \hat{\rho}_\rho \mathbf{e}^{-j\theta} \Rightarrow \hat{\mathbf{r}}_z = \frac{1}{\sqrt{2}}(\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}})$$

$$\text{PLF} = \frac{1}{2} \left| (\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}) \cdot (\hat{\mathbf{z}}_0 + \hat{\rho}_z \hat{\mathbf{r}}) \right|^2 = \frac{1}{2} \left| (\hat{\mathbf{z}}_0 \cdot \hat{\mathbf{z}}_0 + \hat{\mathbf{z}}_0 \cdot \hat{\rho}_z + \hat{\rho}_z \cdot \hat{\mathbf{z}}_0 + \hat{\rho}_z \cdot \hat{\rho}_z) \right|^2$$

Converting the spherical unit vectors to rectangular, as it was done in Problem 2.15, leads to

$$\text{PLF} = \frac{1}{2} |\cos \theta + 1|^2$$

(b) Where

$$\hat{\mathbf{r}}_z = E_z(\hat{\mathbf{z}}_0 + \hat{\rho}_z \mathbf{e}^{-j\theta})$$

$$\hat{\mathbf{r}}_\rho = E_\rho(\hat{\mathbf{z}}_0 + \hat{\rho}_z \mathbf{e}^{-j\theta})$$

the PLF is equal to

$$\text{PLF} = \frac{1}{2} |\cos \theta + 1|^2$$

2.42.  $\mathbf{E}_{\text{tot}} = \hat{\mathbf{z}}_0 \cos \theta + \hat{\rho}_z \sin \theta \cos \theta + \hat{\rho}_\rho \sin \theta \sin \theta$

$$\mathbf{E}_{\text{tot}} = \left[ \frac{\hat{\mathbf{z}}_0 \cos \theta + \hat{\rho}_z \sin \theta \cos \theta}{\sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta}} \right] \sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta} + \hat{\rho}_\rho \sin \theta \sin \theta$$

$$\text{Then } \hat{\mathbf{r}}_z = \frac{\hat{\mathbf{z}}_0 \cos \theta + \hat{\rho}_z \sin \theta \cos \theta}{\sqrt{\cos^2 \theta + \sin^2 \theta \cos^2 \theta}}$$

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*Plane-Wave Theory of Time-Domain Fields* Thorkild B. Hansen, Arthur D. Yaghjian, 1999-06-10 This invaluable book provides a comprehensive framework for the formulation and solution of numerous problems involving the radiation reception propagation and scattering of electromagnetic and acoustic waves Filled with original derivations and theorems it includes the first rigorous development of plane wave expansions for time domain electromagnetic and acoustic fields For the past 35 years near field measurement techniques have been confined to the frequency domain Now with the publication of this book probe corrected near field measurement techniques have been extended to ultra wide band short pulse transmitting and receiving antennas and transducers By combining unencumbered straightforward derivations with in depth expositions of prerequisite material the authors have created an invaluable resource for research scientists and engineers in electromagnetics and acoustics and a definitive reference on plane wave expansions and near field measurements Featured topics include An introduction to the basic electromagnetic

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Proceedings, 1999     **Microwave Passive and Antenna Components** Kai Chang, 1989 Part of a four volume compendium of principles and design data for practising microwave and optical engineers this volume covers microwave components and optical components with most of the design results presented in graphic and tabular form     *Digest* IEEE Antennas and Propagation Society. International Symposium, 2005     **The RF and Microwave Handbook** John Michael Golio, Janet Golio, 2008 The growth of wireless technology over the past decade is reflected in this guide It covers WiMAX broadband cable a comprehensive range of other topics This volume RF and Microwave Applications and Systems includes a wide range of articles that discuss RF and microwave systems used for communication and radar and heating applications Commercial avionics medical and military applications are addressed An overview of commercial communications systems is provided Past current and emerging cellular systems navigation systems and satellite based systems are discussed Specific voice and data commercial systems are investigated more thoroughly in individual chapters that follow Detailed discussions of military electronics avionics and radar both military and automotive are provided in separate chapters A chapter focusing on FR microwave energy used for therapeutic medicine is also provided Systems considerations including thermal mechanical reliability power management and safety are discussed in separate chapters Engineering processes are also explored in articles about corporate initiatives cost modeling and design reviews The book closes with a discussion of the underlying

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