

24. (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 2.15, leads to

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

(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

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

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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Anders Logg, Kent-Andre Mardal, Garth Wells, 2012-02-24 This book is a tutorial written by researchers and developers behind the FEniCS Project and explores an advanced expressive approach to the development of mathematical software The presentation spans mathematical background software design and the use of FEniCS in applications Theoretical aspects are complemented with computer code which is available as free open source software The book begins with a special introductory tutorial for beginners Following are chapters in Part I addressing fundamental aspects of the approach to automating the creation of finite element solvers Chapters in Part II address the design and implementation of the FEniCS software Chapters in Part III present the application of FEniCS to a wide range of applications including fluid flow solid mechanics electromagnetics and geophysics **A Laboratory Manual in Biophotonics** Vadim Backman, Adam Wax, Hao F. Zhang, 2018-05-15 Biophotonics is a burgeoning field that has afforded researchers and medical practitioners alike an invaluable tool for implementing optical microscopy Recent advances in research have enabled scientists to measure and visualize the structural composition of cells and tissue while generating applications that aid in the detection of diseases such as cancer Alzheimer s and atherosclerosis Rather than divulge a perfunctory glance into the field of biophotonics this textbook aims to fully immerse senior undergraduates graduates and research professionals in the fundamental knowledge

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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 *Sparse Phased Array Antennas: Theory and Applications* Ashutosh Kedar,2022-03-31 This ground breaking resource gives you the background theories and know how you need to effectively design active phased array antennas with wider bandwidth and scan volume utilizing sparse array technology The book shows you how to incorporate aperiodic arrays and sparse arrays as a solution for overcoming the restrictions faced in conventional phased antenna designs such as blind spots limited scan volume large power and cooling requirements RF path losses and increased complexity while adhering to the maintenance of SWAP C resources widely used in aerospace and defence Packed with step by step information and research results unavailable in any other single source to date the book presents new concepts and techniques that potentially can be applied to many critical defense and commercial requirements such as radars satcom on move sonars weather monitoring 5G and 6G for mobile communication fault and crack detection in buildings and underground pipelines automotive anti collisions mechanism in automobiles mine detection through wall imaging and more The book helps you to understand the fundamental antenna technology being deployed in modern systems and equips you to design problem solving sparse array models proven by electromagnetic simulations that can reduce the cost and overall complexity of the existing systems Numerous design studies are documented to validate the theories presented The book takes into account the functional constraints in designing commercial and military systems while demonstrating provable techniques that are practical and achievable This is an important resource for phased array antenna designers interested in utilizing sparse array technology with wider bandwidth and scan volume The book s straightforward approach and easy to follow language also make it accessible to students and those new to the field Monthly Catalog of United States Government Publications ,1992 *Monthly Catalogue, United States Public Documents* ,1994-10

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