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CHAPTER 2

Solution Manual

Exact

2.1. (a)
$$d\Omega = \sin \theta d\theta d\phi$$

$$\begin{split} \Omega_A &= \int_{45^\circ}^{607} \int_{30^\circ}^{607} d\Omega = \int_{\pi/4}^{\pi/3} \int_{\pi/6}^{\pi/3} \sin \theta \, d\theta \, d\phi \\ &= \left(\frac{\pi}{12}\right) \left(\frac{\pi}{6}\right) = \frac{\pi^2}{72} \\ &= (\phi) \left| \frac{\pi/3}{\pi/4} (-\cos \theta) \right|_{\pi/6}^{\pi/3} \\ &= \left(\frac{\pi}{3} - \frac{\pi}{4}\right) (-0.5 + 0.866) \\ \Omega_A &= \left(\frac{\pi}{12}\right) (0.366) = 0.09582 \text{ sterads} \\ \Omega_A &= \left(\frac{450 - 314.5385}{314.5385}\right) \times 100 = 43.06\% \end{split}$$

$$\Omega_A = \begin{cases} 0.09582 \text{ sterads} \\ 0.09582 \left(\frac{180}{\pi}\right) \left(\frac{180}{\pi}\right) = 314.5585 (\text{degrees})^2 \end{cases}$$

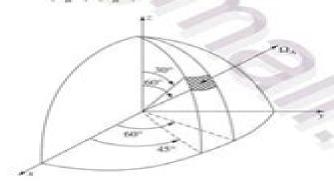
Approximate:

$$\Omega_A \simeq \left(\frac{\pi}{3} - \frac{\pi}{4}\right)\left(\frac{\pi}{3} - \frac{\pi}{6}\right)$$

$$\simeq \left(\frac{\pi}{12}\right)\left(\frac{\pi}{6}\right) = \frac{\pi^2}{22}$$

$$Ω_A \simeq 0.13768 \text{ sterads}$$
 $Ω_A \simeq (60 - 45)(60 - 30)$

$$\left(\frac{450 - 314.5585}{314.5585}\right) \times 100 = 43.06\%$$



Antrona Pheory: Analysis and Design, Fourth Edition. Constantine A. Balanis. O 2016 John Wiley & Sons, Inc. Published 2016 by John Wiley & Sons, Inc. Companion Website: www.wiley.com/go/antenuthoory4e

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Natalia K. Nikolova

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Space Antenna Handbook William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-05-02 This book addresses a broad range of topics on antennas for space applications First it introduces the fundamental methodologies of space antenna design modelling and analysis as well as the state of the art and anticipated future technological developments Each of the topics discussed are specialized and contextualized to the space sector Furthermore case studies are also provided to demonstrate the design and implementation of antennas in actual applications Second the authors present a detailed review of antenna designs for some popular applications such as satellite communications space borne synthetic aperture radar SAR Global Navigation Satellite Systems GNSS receivers science instruments radio astronomy small satellites and deep space applications Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications Key Features Presents a detailed review of antenna designs for applications such as satellite communications space borne SAR GNSS receivers science instruments small satellites radio astronomy deep space applications Addresses the space antenna development from different angles including electromagnetic thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers professionals

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Introduction to Microwave Imaging Natalia K. Nikolova, 2017-07-13 A one stop tutorial for beginners covering the fundamentals of microwave imaging including application examples and practical exercises Scientific and Technical Approximations and Numerical Methods for the Solution of Maxwell's Equations F. El Aerospace Reports ,1987 Dabaghi, 1998 This book was written in response to the increasing interest in the high frequency numerical solution of Maxwell's equations Research activity in this area has been stimulated by requirements for greater precision in radar cross section calculations particularly for geometries with lowobservability however there are also a growing number of applications in bio electromagnetism and electromagnetic compatibility It is hoped that these proceedings will be of interest both to specialists in this area as well as to others simply looking for a guide to recent developments Conference **Proceedings** ,1994 Polarimetric Synthetic Aperture Radar Irena Hajnsek, Yves-Louis Desnos, 2021-03-24 This open access book focuses on the practical application of electromagnetic polarimetry principles in Earth remote sensing with an educational purpose In the last decade the operations from fully polarimetric synthetic aperture radar such as the Japanese ALOS PalSAR the Canadian Radarsat 2 and the German TerraSAR X and their easy data access for scientific use have developed further the research and data applications at L C and X band As a consequence the wider distribution of polarimetric data sets across the remote sensing community boosted activity and development in polarimetric SAR applications also in view of future missions Numerous experiments with real data from spaceborne platforms are shown with the aim of giving an up to date and complete treatment of the unique benefits of fully polarimetric synthetic aperture radar

data in five different domains forest agriculture cryosphere urban and oceans 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

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