



Sheet (2)... (Solution)

1. A hypothetical isotropic antenna is radiating in free-space. At a distance of 100 m from the antenna, the total electric field (E_a) is measured to be 5 V/m. Find the

- (a) Power density (W_{rad})
(b) Power radiated (P_{rad})

$$(a) \quad W_{rad} = \frac{1}{2} [E \times H^*] = \frac{E^2}{2\eta} \hat{a}_r = \frac{5^2 \hat{a}_r}{2(120\pi)} = 0.03315 \hat{a}_r \text{ Watts/m}^2$$

$$(b) \quad P_{rad} = \oint_c W_{rad} dS = \int_0^{2\pi} \int_0^\pi (0.03315) (r^2 \sin\theta d\theta d\phi)$$

$$= \int_0^{2\pi} \int_0^\pi (0.03315) (100)^2 \sin\theta d\theta d\phi$$

$$= 2\pi (0.03315) (100)^2 \int_0^\pi \sin\theta d\theta = 2\pi (0.03315) (100)^2 \cdot 2$$

$$= 4165.95 \text{ watts}$$

2. Estimate the directivity of an antenna with $\Theta_{HP} = 2^\circ$ and $\Phi_{HP} = 1^\circ$.

$$D_{approximate} = \frac{41253}{\Theta_{HP} \Phi_{HP}} = \frac{41253}{2 \cdot 1} = 20627$$

3. Find the number of square degrees in the solid angle Ω on a spherical surface that is between ($\theta = 20^\circ$ and $\theta = 40^\circ$), and ($\phi = 30^\circ$ and $\phi = 70^\circ$).

$$\Omega = \int_{\phi_1}^{\phi_2} d\phi \int_{\theta_1}^{\theta_2} \sin\theta d\theta = (70-30) \cdot \left(\frac{180}{\pi}\right) \cdot (-\cos\theta)_{20}^{40} = 398.17 \text{ deg}^2$$

4. The radiation intensity of antenna is given by $U = B_0 \cos\theta$. U exists only in the upper hemisphere. Find

- a. The exact directivity.
b. The approximate directivity.
c. The decibel difference.

$$U = U_n = P_n = \cos\theta.$$

$$(a) \quad D_{exact} = \frac{4\pi}{\int_0^\pi \int_0^{2\pi} \cos\theta \sin\theta d\theta d\phi} = \frac{4\pi}{(2\pi) \left(\frac{-\cos^2\theta}{2}\right)_0^\pi} = 4.$$

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Antenna Theory Constantine A. Balanis, 1996-06-12 The Latest Resource for the Study of Antenna Theory In a discipline that has experienced vast technological changes this text offers the most recent look at all the necessary topics Highlights include New coverage of microstrip antennas provides information essential to a wide variety of practical designs of rectangular and circular patches including computer programs Applications of Fourier transform spectral method to antenna radiation Updated material on moment methods radar cross section mutual impedances aperture and horn antennas compact range designs and antenna measurements A New Emphasis on Design Balanis features a tremendous increase in design procedures and equations This presents a solid solution to the challenge of meeting real life situations faced by engineers Computer programs contained in the book and accompanying software have been developed to help engineers analyze design and visualize the radiation characteristics of antennas *Advanced Engineering Electromagnetics* Constantine A.

Balanis, 2012-01-24 Balanis second edition of *Advanced Engineering Electromagnetics* a global best seller for over 20 years covers the advanced knowledge engineers involved in electromagnetic need to know particularly as the topic relates to the fast moving continually evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antenna microwave and wireless communication points to an increase in the number of engineers needed to specialize in this field In addition the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text Resources include Ready made lecture notes in Power Point format for all the chapters Forty nine MATLAB programs to compute plot and animate some of the wave phenomena Nearly 600 end of chapter problems that s an average of 40 problems per chapter 200 new problems 50% more than in the first edition A thoroughly updated Solutions Manual 2500 slides for Instructors are included

Antenna Theory Constantine A. Balanis, 2012-12-03 The discipline of antenna theory has experienced vast technological changes In response Constantine Balanis has updated his classic text *Antenna Theory* offering the most recent look at all the necessary topics New material includes smart antennas and fractal antennas along with the latest applications in wireless communications Multimedia material on an accompanying CD presents PowerPoint viewgraphs of lecture notes interactive review questions Java animations and applets and MATLAB features Like the previous editions *Antenna Theory Third Edition* meets the needs of electrical engineering and physics students at the senior undergraduate and beginning graduate levels and those of practicing engineers as well It is a benchmark text for mastering the latest theory in the subject and for better understanding the technological applications An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department [An Introduction to Electromagnetic Inverse Scattering](#) K.I.

Hopcraft, P.R. Smith, 2013-03-09 With the advent of the comparatively new disciplines of remote sensing and non destructive

evaluation of materials the topic of inverse scattering has broadened from its origins in elementary particle physics to encompass a diversity of applications One such area which is of increasing importance in inverse scattering within the context of electromagnetism and this text aims to serve as an introduction to that particular speciality The subject's development has progressed at the hands of engineers mathematicians and physicists alike with an inevitable disparity of emphasis and notation One of the main objectives of this text is to distill the essence of the subject and to present it in the form of a graduated and coherent development of ideas and techniques The text provides a physical approach to inverse scattering solutions emphasizing the applied aspects rather than the mathematical rigour The authors teaching and research backgrounds in physics electrical engineering and applied mathematics enable them to explore and stress the cross disciplinary nature of the subject This treatment will be of use to anyone embarking on a theoretical or practical study of inverse electromagnetic scattering

Reconfigurable Antennas Jennifer T. Bernhard, 2007 Antennas are necessary and critical components of communication and radar systems Making antennas reconfigurable so that their behavior can adapt with changing system requirements or environmental conditions can ameliorate or eliminate these restrictions and promises to provide additional levels of functionality for any system If a single reconfigurable antenna could deliver the same functionality of more than one traditional single purpose system significant savings in cost weight volume and maintenance repair resources may be realizable Reconfigurable Antennas describes in detail the critical parameters for antenna operation as well as possible methods for achieving reconfigurability in each of these parameters It also discusses practical issues surrounding the implementation of reconfigurable antennas including feed methods bias line design and implementation and component selection Finally the book offers a view of the future of reconfigurable antennas and their promise to expand and improve system functionality in a range of different operating scenarios

Theory and Computation of Electromagnetic Fields Jian-Ming Jin, 2015-08-10 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell's equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems Theory and Computation of Electromagnetic Fields Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers

computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples Theory and Computation of Electromagnetic Fields Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills Modern Antenna Handbook Constantine A. Balanis,2011-09-20 The most up to date comprehensive treatment of classical and modern antennas and their related technologies Modern Antenna Handbook represents the most current and complete thinking in the field of antennas The handbook is edited by one of the most recognizable prominent and prolific authors educators and researchers on antennas and electromagnetics Each chapter is authored by one or more leading international experts and includes cover age of current and future antenna related technology The information is of a practical nature and is intended to be useful for researchers as well as practicing engineers From the fundamental parameters of antennas to antennas for mobile wireless communications and medical applications Modern Antenna Handbook covers everything professional engineers consultants researchers and students need to know about the recent developments and the future direction of this fast paced field In addition to antenna topics the handbook also covers modern technologies such as metamaterials microelectromechanical systems MEMS frequency selective surfaces FSS and radar cross sections RCS and their applications to antennas while five chapters are devoted to advanced numerical computational methods targeted primarily for the analysis and design of antennas

The Foundations of Signal Integrity Paul G. Huray,2009-10-22 The first book to focus on the electromagnetic basis of signal integrity The Foundations of Signal Integrity is the first of its kind a reference that examines the physical foundation of system integrity based on electromagnetic theory derived from Maxwell s Equations Drawing upon the cutting edge research of Professor Paul Huray s team of industrial engineers and graduate students it develops the physical theory of wave propagation using methods of solid state and high energy physics mathematics chemistry and electrical engineering before addressing its application to modern high speed systems Coverage includes All the necessary electromagnetic theory needed for a complete understanding of signal integrity Techniques for obtaining analytic solutions to Maxwell s Equations for ideal materials and boundary conditions Plane electromagnetic waves Plane waves in compound media Transmission lines and waveguides Ideal models vs real world systems Complex permittivity of propagating media Surface roughness Advanced signal integrity Signal integrity simulations Problem sets for each chapter With its thorough coverage of this relatively new discipline the book serves as an ideal textbook for senior undergraduate and junior graduate students as well as a resource for practicing engineers in this burgeoning field At the end of each section it typically stimulates the reader with open ended questions that might lead to future theses or dissertation research

Microwave Engineering David M. Pozar,2011-11-22 Pozar s new edition of Microwave Engineering includes more material on active circuits noise nonlinear effects and wireless systems Chapters on noise and nonlinear distortion and active devices have been added along with the coverage of noise and more

material on intermodulation distortion and related nonlinear effects On active devices there s more updated material on bipolar junction and field effect transistors New and updated material on wireless communications systems including link budget link margin digital modulation methods and bit error rates is also part of the new edition Other new material includes a section on transients on transmission lines the theory of power waves a discussion of higher order modes and frequency effects for microstrip line and a discussion of how to determine unloaded Antennas Yi Huang, Kevin Boyle, 2008-09-15 Practical concise and complete reference for the basics of modern antenna design Antennas from Theory to Practice discusses the basics of modern antenna design and theory Developed specifically for engineers and designers who work with radio communications radar and RF engineering this book offers practical and hands on treatment of antenna theory and techniques and provides its readers the skills to analyse design and measure various antennas Key features Provides thorough coverage on the basics of transmission lines radio waves and propagation and antenna analysis and design Discusses industrial standard design software tools and antenna measurement equipment facilities and techniques Covers electrically small antennas mobile antennas UWB antennas and new materials for antennas Also discusses reconfigurable antennas RFID antennas Wide band and multi band antennas radar antennas and MIMO antennas Design examples of various antennas are provided Written in a practical and concise manner by authors who are experts in antenna design with experience from both academia and industry This book will be an invaluable resource for engineers and designers working in RF engineering radar and radio communications seeking a comprehensive and practical introduction to the basics of antenna design The book can also be used as a textbook for advanced students entering a profession in this field Field Solutions on Computers Stanley Humphries Jr., 2020-09-23 Field Solutions on Computers covers a broad range of practical applications involving electric and magnetic fields The text emphasizes finite element techniques to solve real world problems in research and industry After introducing numerical methods with a thorough treatment of electrostatics the book moves in a structured sequence to advanced topics These include magnetostatics with non linear materials permanent magnet devices RF heating eddy current analysis electromagnetic pulses microwave structures and wave scattering The mathematical derivations are supplemented with chapter exercises and comprehensive reviews of the underlying physics The book also covers essential supporting techniques such as mesh generation interpolation sparse matrix inversions and advanced plotting routines **A Software-Defined GPS and Galileo Receiver** Kai Borre, Dennis M. Akos, Nicolaj Bertelsen, Peter Rinder, Søren Holdt Jensen, 2007-08-03 This book explore the use of new technologies in the area of satellite navigation receivers In order to construct a reconfigurable receiver with a wide range of applications the authors discuss receiver architecture based on software defined radio techniques The presentation unfolds in a user friendly style and goes from the basics to cutting edge research The book is aimed at applied mathematicians electrical engineers geodesists and graduate students It may be used as a textbook in various GPS technology and signal processing courses or as a self study reference for anyone working with

satellite navigation receivers *An Introduction to Modern Astrophysics* Bradley W. Carroll, Dale A. Ostlie, 2017-09-07 *An Introduction to Modern Astrophysics* is a comprehensive well organized and engaging text covering every major area of modern astrophysics from the solar system and stellar astronomy to galactic and extragalactic astrophysics and cosmology Designed to provide students with a working knowledge of modern astrophysics this textbook is suitable for astronomy and physics majors who have had a first year introductory physics course with calculus Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe worked examples to facilitate the understanding of the concepts presented in the book end of chapter problems to practice the skills acquired and computational exercises to numerically model astronomical systems the second edition of *An Introduction to Modern Astrophysics* is the go to textbook for learning the core astrophysics curriculum as well as the many advances in the field

Foundations of Electromagnetic Compatibility Bogdan Adamczyk, 2017-02-14 There is currently no single book that covers the mathematics circuits and electromagnetics backgrounds needed for the study of electromagnetic compatibility EMC This book aims to redress the balance by focusing on EMC and providing the background in all three disciplines This background is necessary for many EMC practitioners who have been out of study for some time and who are attempting to follow and confidently utilize more advanced EMC texts The book is split into three parts Part 1 is the refresher course in the underlying mathematics Part 2 is the foundational chapters in electrical circuit theory Part 3 is the heart of the book electric and magnetic fields waves transmission lines and antennas Each part of the book provides an independent area of study yet each is the logical step to the next area providing a comprehensive course through each topic Practical EMC applications at the end of each chapter illustrate the applicability of the chapter topics The Appendix reviews the fundamentals of EMC testing and measurements **Digital Communications: Fundamentals & Applications, 2/E** Sklar, 2009-09 **Coplanar**

Waveguide Circuits, Components, and Systems Rainee N. Simons, 2004-04-07 Up to date coverage of the analysis and applications of coplanar waveguides to microwave circuits and antennas The unique feature of coplanar waveguides as opposed to more conventional waveguides is their uniplanar construction in which all of the conductors are aligned on the same side of the substrate This feature simplifies manufacturing and allows faster and less expensive characterization using on wafer techniques *Coplanar Waveguide Circuits Components and Systems* is an engineer's complete resource collecting all of the available data on the subject Rainee Simons thoroughly discusses propagation parameters for conventional coplanar waveguides and includes valuable details such as the derivation of the fundamental equations physical explanations and numerical examples Coverage also includes Discontinuities and circuit elements Transitions to other transmission media Directional couplers hybrids and magic T Microelectromechanical systems based switches and phase shifters Tunable devices using ferroelectric materials Photonic bandgap structures Printed circuit antennas Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications Yingjie Jay Guo, Richard W. Ziolkowski, 2021-10-26 *Advanced Antenna Array*

Engineering for 6G and Beyond Wireless Communications Reviews advances in the design and deployment of antenna arrays for future generations of wireless communication systems offering new solutions for the telecommunications industry Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications addresses the challenges in designing and deploying antennas and antenna arrays which deliver 6G and beyond performance with high energy efficiency and possess the capability of being immune to interference caused by different systems mounted on the same platforms This timely and authoritative volume presents innovative solutions for developing integrated communications networks of high gain individually scannable multi beam antennas that are reconfigurable and conformable to all platforms thus enabling the evolving integrated land air and space communications networks The text begins with an up to date discussion of the engineering issues facing future wireless communications systems followed by a detailed discussion of different beamforming networks for multi beam antennas Subsequent chapters address problems of 4G 5G antenna collocation discuss differentially fed antenna arrays explore conformal transmit arrays for airborne platforms and present latest results on fixed frequency beam scanning leaky wave antennas as well as various analogue beam synthesizing strategies Based primarily on the authors extensive work in the field including original research never before published this important new volume Reviews multi beam feed networks array decoupling and de scattering methods Provides a systematic study on differentially fed antenna arrays that are resistant to interference caused by future multifunctional multi generation systems Features previously unpublished material on conformal transmit arrays based on Huygen s metasurfaces and reconfigurable leaky wave antennas Includes novel algorithms for synthesizing and optimizing thinned massive arrays conformal arrays frequency invariant arrays and other future arrays Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications is an invaluable resource for antenna engineers and researchers as well as graduate and senior undergraduate students in the field

Characteristic Modes Yikai Chen,Chao-Fu Wang,2015-06-15 Describes how to systematically implement various characteristic mode CM theories into designs of practical antenna systems This book examines both theoretical developments of characteristic modes CMs and practical developments of CM based methodologies for a variety of critical antenna designs The book is divided into six chapters Chapter 1 provides an introduction and discusses the recent advances of the CM theory and its applications in antenna engineering Chapter 2 describes the formulation of the characteristic mode theory for perfectly electrically conducting PEC bodies and discusses its numerical implementations Chapter 3 presents the CM theory for PEC structures embedded in multilayered medium and its applications Chapter 4 covers recent advances in CM theory for dielectric bodies and also their applications Chapter 5 discusses the CM theory for N port networks and its applications to the design of antenna arrays Finally Chapter 6 discusses the design of platform integrated antenna systems using characteristic modes This book features the following Introduces characteristic mode theories for various electromagnetic structures including PEC bodies structures in multilayered medium dielectric bodies and N port networks Examines CM

applications in electrically small antennas microstrip patch antennas dielectric resonator antennas multiport antennas antenna arrays and platform mounted antenna systems Discusses numerical algorithms for the implementation of the characteristic mode theories in computer code Characteristic Modes Theory and Applications in Antenna Engineering will help antenna researchers engineers and students find new solutions for their antenna design challenges **Mutual Coupling Between Antennas** Trevor S. Bird, 2021-06-28 Mutual Coupling Between Antennas A guide to mutual coupling between various types of antennas in arrays such as wires apertures and microstrip patches or antennas co sited on platforms Mutual Coupling Between Antennas explores the theoretical underpinnings of mutual coupling offers an up to date description of the physical effects of mutual coupling for a variety of antennas and contains techniques for analysing and assessing its effects The book puts the topic in historical context presents an integral equation approach includes the current techniques measurement methods and discusses the most recent advances in the field With contributions from noted experts on the topic the book reviews practical aspects of mutual coupling and examines applications that clearly demonstrate where the performance is impacted both positively and negatively Mutual Coupling Between Antennas contains information on how mutual coupling can be analysed with a wide range of methods from direct computer software using discrete methods to integral equations and Greens function methods as well as approximate asymptotic methods This important text Provides a theoretical background for understanding mutual coupling between various types of antennas Describes the interaction that occurs between antennas both planned and unplanned Explores a key aspect of arrays in any wireless radar or sensing system operating at radio frequencies Offers a groundbreaking book on antenna mutual coupling Written for antenna engineers technical specialists researchers and students Mutual Coupling Between Antennas is the first book to examine mutual coupling between various types of antennas including wires horns microstrip patches MIMO antennas co sited antennas and arrays in planar or conformal configurations Antenna Theory and Applications Hubregt J. Visser, 2012-03-05 This comprehensive text on antenna theory explains the origin of radiation and discusses antenna parameters in depth This book offers an in depth coverage of fundamental antenna theory and shows how to apply this in practice The author discusses electromagnetic radiation and antenna characteristics such as impedance radiation pattern polarization gain and efficiency In addition the book provides readers with the necessary tools for analyzing complex antennas and for designing new ones Furthermore a refresher chapter on vector algebra including gradient divergence and curl operation is included Throughout the book ample examples of employing the derived theory are given and all chapters are concluded with problems giving the reader the opportunity to test his her acquired knowledge Key Features Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas Discusses the origin of radiation and provides an in depth explanation of antenna parameters Explores all the necessary steps in antenna analysis allowing the reader to understand and analyze new antenna structures Contains a chapter on vector algebra which is often a stumbling

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