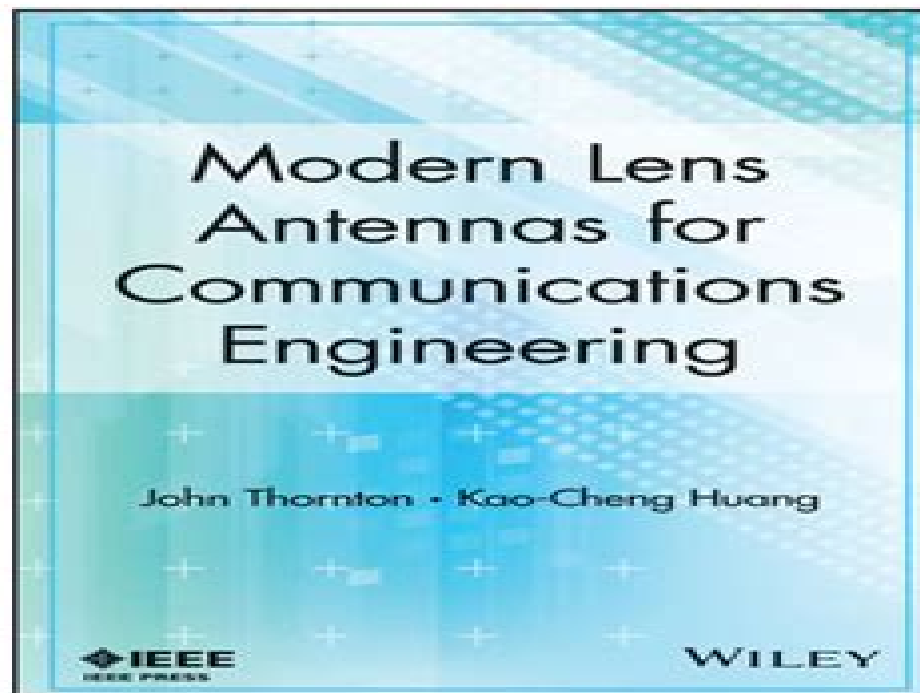


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Modern Lens Antennas for Communications Engineering John Thornton, Kao-Cheng Huang, 2013-03-06 The aim of this book is to present the modern design principles and analysis of lens antennas. It gives graduates and RF Microwave professionals the design insights in order to make full use of lens antennas. Why do we want to write a book in lens antennas? Because this topic has not been thoroughly publicized, its importance is underestimated. As antennas play a key role in communication systems, recent development in wireless communications would indeed benefit from the characteristics of lens antennas: low profile and low cost etc. The major advantages of lens antennas are narrow beamwidth, high gain, low sidelobes, and low noise temperature. Their structures can be more compact and weigh less than horn antennas and parabolic antennas. Lens antennas with their quasi-optical characteristics also have low loss, particularly at near millimeter and submillimeter wavelengths where they have particular advantages. This book systematically conducts advanced and up-to-date treatment of lens antennas.

Terahertz Planar Antennas for Next Generation Communication Kumud Ranjan Jha, Ghanshyam Singh, 2014-01-10 This book describes various methods to enhance the directivity of planar antennas, enabling the next generation of high frequency wireless communication. The authors discuss various applications to the terahertz regime of the electromagnetic spectrum with an emphasis on gain enhancement mechanisms. The numerical models of these antennas are presented and the analytical results are supported using commercial simulators. The multilayer substrate microstrip transmission line at terahertz frequency is also explored and a method to obtain the various parameters of this interconnect at high frequency is described. This book will be a valuable resource for anyone needing to explore the terahertz band gap for future wireless communication in an effort to solve the bandwidth spectrum scarcity problem.

Substrate-Integrated Millimeter-Wave Antennas for Next-Generation Communication and Radar Systems Zhi Ning Chen, Xianming Qing, 2021-04-08 Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems. The first and only comprehensive text on substrate integrated mmW antenna technology, state of the art antenna design and emerging wireless applications. Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems elaborates the most important topics related to revolutionary millimeter wave mmW technology. Following a clear description of fundamental concepts including substrate integrated waveguides and loss analysis, the text treats key design methods, prototyping techniques, and experimental setup and testing. The authors also highlight applications of mmW antennas in 5G wireless communication and next generation radar systems. Readers are prepared to put techniques into practice through practical discussions of how to set up testing for impedance matching, radiation patterns, gain from 24GHz up to 325 GHz and more. This book will bring readers state of the art designs and recent progress in substrate integrated mmW antennas for emerging wireless applications. Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems is the first comprehensive text on the topic, allowing

readers to quickly master mmW technology This book Introduces basic concepts such as metamaterials Huygens s surface zero index structures and pattern synthesis Describes prototyping in the form of fabrication based on printed circuit board low temperature co fired ceramic and micromachining Explores applications for next generation radar and imaging systems such as 24 GHz and 77 GHz vehicular radar systems Elaborates design methods including waveguide based feeding network three dimensional feeding structure dielectric loaded aperture antenna element and low sidelobe synthesis The mmW is one of today s most important emerging technologies This book provides graduate students researchers and engineers with the knowledge they need to deploy mmW systems and develop new antenna designs with low cost low loss and low complexity

Low-cost Smart Antennas Qi Luo, Steven Shichang Gao, Wei Liu, Chao Gu, 2019-02-12 An authoritative guide to the latest developments for the design of low cost smart antennas Traditional smart antenna systems are costly consume great amounts of power and are bulky size Low cost Smart Antennas offers a guide to designing smart antenna systems that are low cost low power and compact in size and can be applied to satellite communications radar and mobile communications The authors noted experts on the topic provide introductions to the fundamental concepts of antennas array antennas and smart antennas The book fills a gap in the literature by presenting the design techniques of low cost radio frequency RF smart antennas as well as approaches for implementing the hardware of the antenna and the beamforming network BFN A comprehensive and accessible book Low cost Smart Antennas not only presents an up to date review of the topic but includes illustrative case studies that contain in depth explorations of the theory and technology of smart antennas While other resources highlight the software signal processing algorithms this book is unique by focusing on the antenna hardware This important book Offers an introduction to the most recent developments of the design of low cost smart antennas and their applications Presents a unique book that puts the focus on antenna hardware Includes a variety of case studies that clearly demonstrate the implementation of current design techniques Introduces both fundamental theories as well as more advanced topics Written for students and researchers and antenna engineers Low cost Smart Antennas explores the most recent advances in the field with an emphasis on antenna hardware

Proceedings of the 8th International Conference on Space Science and Communication Mohammad Tariqul Islam, Norbahiah Misran, Mandeep Jit Singh, 2024-03-30 This book presents peer reviewed articles from the 8th International Conference on Space Science and Communication IConSpace 2023 held at Penang in Malaysia It addresses complications of ground breaking initiatives and solutions for space science and communications research telecommunications and meteorology With the theme Advanced Space Technology Accelerating Global Agenda will provide valid information to understand trends evaluate needs and create global development policies and programs in the best interest of all It brings together researchers engineers geospatialist meteorologists astronomers and practitioners in order to present the latest applications in space science telecommunications meteorology remote sensing and related fields

Modern Methods of Reflector Antenna Analysis and Design Craig Scott, 1990 Here s the first

complete reference available on all of the modern reflector antenna analysis and design techniques This book demystifies modern reflector antenna analysis by proceeding from the early numerical integration approaches to today s powerful techniques such as the Jacobi Bessel and Fourier Bessel Methods Journal of Electrical and Electronics Engineering, Australia ,1986 **Telecommunication Journal** ,1989 **EE Systems Engineering Today** ,1963 Proceedings of the IRE. Institute of Radio Engineers,1960 **The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Proceedings of the IRE.** ,1960 *Antenna Theory and Design* Warren L. Stutzman,Gary A. Thiele,1998 Highly respected authors have reunited to update the well known 1981 edition which is still hailed as one of the best in its field This edition includes recent antenna innovations and applications It features a succinct treatment of the finite difference time domain FDTD computational technique It is also the first text to treat physical theory of diffraction PTD **Electrical News and Engineering** ,1946 **Modern Antenna Design** Thomas A. Milligan,2005-06-24 A practical book written for engineers who design and use antennas The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA The book covers all important topics of modern antenna design for communications Numerical methods will be included but only as much as are needed for practical applications **Aeronautical Engineering** ,1987 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Radio Electronics and Communications Systems** ,1966 The Engineering Index ,1966 **American Book Publishing Record** ,1988 *Scientific, Medical, and Technical Books Published in the United States of America, 1930-1944* Reginald Robert Hawkins,1950

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