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The Radar Navigation and Maneuvering Board Manual (Pub 1310) contains, in a single volume, information on the fundamentals of shipboard radar, radar operation, collision avoidance, navigation by radar, and a description of vessel

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traffic systems in US waters. Additionally, the publication provides a quick reference to specific relative motion problem solutions including both textual and graphic explanations. Issues in Electronic Circuits,

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Devices, and Materials: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Microwave Research. The editors have built Issues in Electronic Circuits, Devices, and

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Materials: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Microwave Research in this book to be deeper than what you can access anywhere else, as well as

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consistently reliable, authoritative, informed, and relevant. The content of Issues in Electronic Circuits, Devices, and Materials: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research

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institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite

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This authoritative resource provides you with a detailed description of ideal array element characteristics

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that help you estimate the quality of development of real-world phased array antennas. You find several approaches to optimum phased array design, allowing you to provide specified array gain in a specific region of scan, using a

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minimum number of expensive, controlled devices. Moreover, this practical book presents important numerical methods that you can use to model and optimize phased array structure to obtain the best array characteristics that the

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chosen structure can provide. From arrays with beam-forming networks, arrays of coupled dual-mode waveguides, and arrays with reactively loaded radiators, to waveguide arrays with protruding dielectric elements, and arrays with

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strip, disk, and wire structures, this comprehensive reference explains a wide range of essential topics to help you with work in this challenging area. The book is supported with over 165 illustrations and more than 566

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equations.

*Compact Slot Array Antennas for
Wireless Communications
Slotted Substrate Integrated
Waveguide Array Antenna & Feed
System
Scientific and Technical Aerospace*

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Reports

Wireless Hacks

Marine Electronic Navigation

*"This 600 page textbook must
be a good candidate for
being the authoritative
reference on its
subject....This book reveals*

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all through a good, clear text amply illustrated... The authors and publisher are to be congratulated on an excellent production."--The Naval Review Well organized, clear and easy to read. The second

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edition has been enlarged with various items devoted to new electronic equipment now encountered by mariners, especially those concerned with navigational and radiocommunication equipment."--International

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Hydrographic Bulletin "A major and standard text, now much enlarged and revised with sections on radar, communications, the gyro compass and all navigation systems encountered in merchant ships. Full and

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expert treatment of all aspects of electronic navigation and communication systems making it one of the leading references on its subjects."--Lloyds List
Continuing advancements in electronics creates the

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possibility of communicating with more people at greater distances. Such an evolution calls for more efficient techniques and designs in radio communications.

Emerging Innovations in Microwave and Antenna

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Engineering provides innovative insights into theoretical studies on propagation and microwave design of passive and active devices. The content within this publication is separated into three

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sections: the design of antennas, the design of the antennas for the RFID system, and the design of a new structure of microwave amplifier. Highlighting topics including additive manufacturing technology,

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design application, and performance characteristics, it is designed for engineers, electricians, researchers, students, and professionals, and covers topics centered on modern antenna and microwave

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*circuits design and theory.
Reflecting a growing
interest in phased array
antenna systems, stemming
from radar, radio astronomy,
mobile communications and
satellite broadcasting,
Array and Phased Array*

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Antenna Basics introduces the principles of array and phased array antennas. Packed with first-hand practical experience and worked-out examples, this is a valuable learning tool and reference source for those

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wishing to improve their understanding of basic array antenna systems without relying heavily on a thorough knowledge of electromagnetics or antenna theory. Features a general introduction to antennas and

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explains the array antenna principle through discussion of the physical characteristics rather than the theory Explores topics often not covered in antenna textbooks, such as active element pattern, array

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*feeding, means of phase
changing, array antenna
characterisation, sequential
rotation techniques and
reactively loaded arrays
Guides the reader through
the necessary mathematics,
allowing them to move onto*

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specialist books on array and phased array antennas with a greater understanding of the topic Supported by a companion website on which instructors and lecturers can find electronic versions of the figures An ideal

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introduction for those without a background in antennas, this clear, concise volume will appeal to technicians, researchers and managers working in academia, government, telecommunications and radio

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*astronomy. It will also be a
valuable resource for
professionals and
postgraduates with some
antenna knowledge.*

*From Theory to Practice
A Technology for
Sustainability*

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*NASA Reference Publication
Bibliography of Microwave
Optical Technology
The Handbook of Antenna
Design*

**This book helps you
master critical system**

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**analysis and design
skills, and shows you
how to use digital
computer simulation to
verify that an analysis
is correct and that a
design is optimal. This**

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comprehensive resource covers a wide range of essential topics, from matrix, vector and linear equations, noise and clutter generation, Filters (FIR and IIR),

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**and fast Fourier
transforms ... to
ambiguity functions,
antennas, target
detection, and the
Kalman filter ... to the
Monte Carlo method,**

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**constant false alarm
rate (CFAR) processing,
and moving target
indicators (MTI).**

**ANTENNA AND ARRAY
TECHNOLOGIES FOR FUTURE
WIRELESS ECOSYSTEMS**

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**Discover a timely and
accessible resource on
the latest antenna
research driving new
developments in the
field In Antenna and
Array Technologies for**

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**Future Wireless
Ecosystems,
distinguished academics
and authors Drs. Y. Jay
Guo and Richard W.
Ziolkowski deliver a
cutting-edge resource**

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**for researchers,
academics, students, and
engineers who need the
latest research findings
on the newest challenges
facing antenna designers
who will be creating the**

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**technology that drives
future 6G and beyond
wireless systems and
networks. This timely
and impactful book
offers the fundamental
knowledge that will**

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**facilitate new research
activities in the
antennas and applied
electromagnetics
communities, and conveys
innovative and practical
solutions to many**

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**wireless industry
problems. Its
international cohort of
leading authors delivers
their findings on a
variety of advanced
topics in antenna and**

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**array research,
including metasurface
antennas; electrically
small directive
antennas; RF, millimeter-
wave and THz antennas
and arrays; atom-based**

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**sensors, and arrays of
quantum emitters. The
book also includes
resources that cover the
important topics: A
thorough introduction to
various intelligent and**

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**Low-cost beam scanning,
beamforming and beam-
reconfigurable array
technologies to support
dynamic networking of
future systems An
exploration of advanced**

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**techniques for analyzing
large arrays, as well as
an examination of
advanced antenna-in-
package technologies for
future mm-wave systems
Discussions of the**

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**latest research on
electrically small and
extremely large hybrid
antenna arrays, and
photonic beamforming
networks to address
spectrum scarcity in**

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**future systems Low form-
factor, low energy-
consumption, and
wireless power transfer
antennas for the
Internet of Things (IoT)
This book is the**

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**companion of the Wiley
book by the same
authors, Advanced
Antenna Array
Engineering for 6G and
Beyond Wireless
Communications. Perfect**

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**for antenna engineers in
academia and industry,
Antenna and Array
Technologies for Future
Wireless Ecosystems will
also be an essential
resource in the**

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**libraries of senior
undergraduate and
graduate students
studying antenna
engineering applied
electromagnetics and
seeking a one-stop**

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**reference for state-of-
the-art global antenna
and antenna array
research activities.
Techniques based on the
method of modal
expansions, the Rayleigh-**

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**Stevenson expansion in
inverse powers of the
wavelength, and also the
method of moments
solution of integral
equations are
essentially restricted**

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**to the analysis of
electromagnetic
radiating structures
which are small in terms
of the wavelength. It
therefore becomes
necessary to employ**

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**approximations based on
"high-frequency
techniques" for
performing an efficient
analysis of
electromagnetic
radiating systems that**

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are large in terms of the wavelength. One of the most versatile and useful high-frequency techniques is the geometrical theory of diffraction (GTD), which

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**was developed around
1951 by J. B. Keller
[1,2,3]. A class of
diffracted rays are
introduced
systematically in the
GTD via a generalization**

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**of the concepts of
classical geometrical
optics (GO). According
to the GTD these
diffracted rays exist in
addition to the usual
incident, reflected, and**

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**transmitted rays of G_0 .
The diffracted rays in
the GTD originate from
certain "localized"
regions on the surface
of a radiating
structure, such as at**

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discontinuities in the geometrical and electrical properties of a surface, and at points of grazing incidence on a smooth convex surface as illustrated in Fig.

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1. In particular, the diffracted rays can enter into the GO shadow as well as the lit regions. Consequently, the diffracted rays entirely account for the

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**fields in the shadow
region where the GO rays
cannot exist.**

**Antenna and Array
Technologies for Future
Wireless Ecosystems
Issues in Electronic**

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**Circuits, Devices, and
Materials: 2013 Edition
Modern Antenna Design
Radar Technology
Phased Array Antennas
with Optimized Element
Patterns**

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In this book “Radar Technology”, the chapters are divided into four main topic areas: Topic area 1: “Radar Systems” consists of chapters which treat whole radar systems, environment and target functional chain. Topic area 2:

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“Radar Applications” shows various applications of radar systems, including meteorological radars, ground penetrating radars and glaciology. Topic area 3: “Radar Functional Chain and Signal Processing” describes several

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aspects of the radar signal processing. From parameter extraction, target detection over tracking and classification technologies. Topic area 4: “Radar Subsystems and Components” consists of design technology of

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radar subsystem components like antenna design or waveform design. This book is designed for the final year students in electronics and communication and for the first year post graduate students in Digital Communication and allied subjects.

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This compact and comprehensive text fulfils the long felt need for a suitable text book in the area of “Antenna and wave Propagation”. It is written as per the revised syllabus of Rajasthan Technical University (RTU), Kota. It covers the topics, of

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fundamentals of antenna, types of antenna, antenna arrays, radio propagation modes, with basics of IE3D software and advance antenna topics. This well organized text lays emphasis on all the modes of propagation and practical aspects of

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antenna, with worked out examples & further previous year solved paper are included topic wise, which would be of considerable assistance to the reader. This comprehensive book covering all aspects of antenna and wave propagations, should

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prove to be an invaluable asset to both students & professionals.

Features: According to the syllabus prescribed by Rajasthan Technical University (RTU), Kota. Including previous year's university papers.

Precise definitions and clear

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exposure of fundamental concepts. Simple and easy explanation of the topics along with well labelled diagrams. Step by step procedure is followed for explaining the topics. Detailed coverage of advance antennas, helpful for the post

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graduation students. The recent applications of antenna are also summarized here again proving fruitful for the M.Tech. Students. IE3D software basic is been included for the purpose of dissertation for M. Tech. Students.

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Ideally suitable for self study.

Recently, the rapid development of radiofrequency (RF)/microwave and photonic/optical waveguide technologies has had a significant impact on the current electronic industrial, medical and information

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and communication technology (ICT) fields. This book is a self-contained collection of valuable scholarly papers related to waveguide design, modeling, and applications. This book contains 20 chapters that cover three main

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subtopics of waveguide technologies, namely RF and microwave waveguide, photonic and optical waveguide and waveguide analytical solutions. Hence, this book is particularly useful to the academics, scientists, practicing

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researchers and postgraduate students whose work relates to the latest waveguide technologies. Modern Antenna Handbook American Practical Navigator An Antenna Array of Longitudinally-slotted Dielectric-loaded

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Waveguides

Emerging Innovations in Microwave
and Antenna Engineering
Theory, Applications, and Design
Antennas From Theory to
Practice Comprehensive
coverage of the fundamentals

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and latest developments in antennas and antenna design In the newly revised Second Edition of Antennas: From Theory to Practice, renowned researcher, engineer, and author Professor Yi Huang

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delivers comprehensive and timely coverage of issues in modern antenna design and theory. Practical and accessible, the book is written for engineers, researchers, and students who work with radio

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frequency/microwave engineering, radar, and radio communications. The book details the basics of transmission lines, radiowaves and propagation, antenna theory, antenna analysis and

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design using industrial standard design software tools and the theory of characteristic modes, antenna measurement equipment, facilities, and techniques. It also covers the latest developments in special

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topics, like small and mobile antennas, wide- and multi-band antennas, automotive antennas, RFID, UWB, metamaterials, reconfigurable and MIMO antennas, and more. The new edition includes up to date

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information on a wide variety of newly relevant topics and trends, like adaptive impedance matching, the theory of characteristic modes, antenna materials and fabrication processes, and over-the-air

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(OTA) antenna system measurements. Many questions and examples are provided which enhances the learning experience. The book covers: An introduction to circuit concepts and transmission lines, including

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lumped and distributed element systems, transmission line theory, and the Smith Chart An exploration of field concepts and radiowaves, including wave equations and solutions and radiowave propagation

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mechanisms, characteristics,
and models Discussions of
antenna basics and popular
antennas, including wire-type
antennas, aperture-type
antennas, and antenna arrays
Information about antenna

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manufacturing and measurements, including antenna measurement facilities and methods The use of industrial standard simulation tools for antenna design and analysis Perfect for engineers

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and researchers who work in RF engineering or radar and radio communications, Antennas: From Theory to Practice, Second Edition will also earn a place on the bookshelves of university students seeking a concise and

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practical introduction to the basics of antennas and antenna design.

The investigation concerned the design of an antenna made up of an array of dielectric-loaded rectangular waveguides with

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common narrow walls.

Longitudinal slots were cut in the center of each broad wall.

The preferred form of the antenna utilized a slab of dielectric was placed over all the slots, although it also

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operated when dielectric was placed within each guide. An approximate theory is discussed and empirical design data are presented from which an experimental model of this antenna was designed.

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Empirical data are also given for cases in which dielectric was placed inside the waveguides. The radiated H-field from this antenna was parallel to the antenna aperture, and the main beam was directed up from the

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aperture at an angle equal to the arc cosine of the velocity of light divided by the slotted-waveguide phase velocity. An experimental antenna was constructed using standard 0.900-by-0.400-inch waveguide,

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and had an aperture 9 inches wide by 20 inches long. At the design frequency of 10 kmc the E-plane and H-plane beamwidths were 5.4 and 8.0 degrees, respectively, and the E-plane and H-plane firstsidelobe

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levels were -22.0 db and -23 db, respectively. Good radiation patterns were obtained from 8 to 11 kmc. (Author).

The most up-to-date, comprehensive treatment of classical and modern antennas

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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

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prolific authors, educators, and researchers on antennas and electromagnetics. Each chapter is authored by one or more leading international experts and includes coverage of current and future antenna-

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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

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wireless communications and medical applications, Modern Antenna Handbook covers everything professional engineers, consultants, researchers, and students need to know about the recent

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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

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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

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methods targeted primarily for
the analysis and design of
antennas.

Aircraft Systems

Instruments, Communications,
Navigation, and Control

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Antennas for Communication
Wideband, Multiband, and
Smart Antenna Systems

This collection presents 49
contributions by engineers,
architects, biologists, and applied
mathematicians interested in

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deployable structures. Aerospace structures are currently at the leading edge, and this is reflected by a larger number of contributions covering the full spectrum of concepts, simulations, testing, and working systems.

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The popularity of wireless networking has grown exponentially over the past few years, despite a general downward trend in the telecommunications industry. More and more computers and users worldwide communicate via radio

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waves every day, cutting the tethers of the cabled network both at home and at work. Wireless technology changes not only the way we talk to our devices, but also what we ask them to do. With greater flexibility, broader range,

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and increased mobility, wireless networks let us live, work, and think differently. Wireless networks also open up a vast range of tasty new hack possibilities, from fine-tuning network frequencies to hot-rodding handhelds. The second edition of

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Wireless Hacks, co-authored by Rob Flickenger and Roger Weeks, brings readers more of the practical tips and tricks that made the first edition a runaway hit, selling nearly 30,000 copies. Completely revised and updated, this version includes

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over 30 brand new hacks, major overhauls of over 30 more, and timely adjustments and touchups to dozens of other hacks introduced in the first edition. From passive network scanning to aligning long-distance antennas, beefing up

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wireless network security, and beyond, Wireless Hacks answers real-life networking needs with direct solutions. Flickenger and Weeks both have extensive experience in systems and network administration, and share a passion

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for making wireless more broadly available. The authors include detailed coverage for important new changes in specifications and in hardware and software, and they delve deep into cellular and Bluetooth technologies. Whether

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you need your wireless network to extend to the edge of your desk, fit into your backpack, or cross county lines, the proven techniques in Wireless Hacks will show you how to get the coverage and functionality you're looking for.

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Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Radar Navigation Manual

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U.S. Government Research
Reports

Official Gazette of the United States
Patent and Trademark Office
Tips & Tools for Building,
Extending, and Securing Your
Network

Where To Download Slotted Waveguide Antenna Radiation Pattern Antenna Handbook

This book provides current R&D trends and novel approaches in design and analysis of broadband, multiband, and smart antennas for 5G and B5G mobile and wireless applications, as well as the identification of integration techniques

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of these antennas in a diverse range of devices. The book presents theoretical and experimental approaches to help the reader in understanding the unique design issues and more advanced research. Moreover, the book includes chapters on the fundamentals of

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antenna theory. The book is pertinent to professionals and researchers working in the field of antenna engineering; it is written for graduate students, researchers, academics, and industry practitioners who want to improve their understanding in the

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current research trends in design analysis of broadband, multiband, and smart antennas for wireless applications.

A practical book written for engineers who design and use antennas The author has many years of hands on

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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

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practical applications

This book describes and provides design guidelines for antennas that achieve compactness by using the slot radiator as the fundamental building block within a periodic array, rather than a phased array. It provides the

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basic electromagnetic tools required to design and analyse these novel antennas, with sample calculations where relevant. The book presents a focused introduction and valuable insights into the relevant antenna technology, together with an overview

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of the main directions in the evolving technology of compact planar arrays. While the book discusses the historical evolution of compact array antennas, its main focus is on summarising the extensive body of literature on compact antennas. With regard to the now

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ubiquitous slot radiator, it seeks to demonstrate how, despite significant antenna size reductions that at times even seem to defy the laws of physics, desirable radiation pattern properties can be preserved. This is supported by an examination of recent advances in

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frequency selective surfaces and in metamaterials, which can, if handled correctly, be used to facilitate physics-defying designs. The book offers a valuable source of information for communication systems and antenna design engineers, especially thanks to

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its overview of trends in compact planar arrays, yet will also be of interest to students and researchers, as it provides a focused introduction and insights into this highly relevant antenna technology.

Antennas

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Proceedings of the IUTAM

Symposium held in Cambridge, U.K.,
6-9 September 1998

Electromagnetic Foundations of Solar
Radiation Collection

Antenna Patterns from Single Slots in
Carbon Fibre Reinforced Plastic

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Waveguides

Slotted Waveguide Shaped Beam
Antenna at Ku Band

This text seeks to illuminate, mainly for the electrical power engineers of the future, the topic of large scale solar flux gathering schemes, which arguably represent the major source of

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renewable power available. The aim of the content is to impart, from an electromagnetic perspective, a deep and sound understanding of the topic of solar flux collection, ranging from the characteristics of light to the properties of antennas. To do this five chapters are employed to provide a

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thorough grounding in relevant aspects of electromagnetism and electromagnetic waves including optics, electromagnetic radiation and reception, aperture antennas and array antennas and the quantum electrodynamics aspects of optical absorption, as it relates to photovoltaic

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techniques. The principles developed in these chapters are then used to underpin and elucidate the main chapters on photovoltaic collectors, concentrated solar power collectors, satellite based collection systems and optical antennas. To establish the novel and transformative renewable

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technologies, which civilisation will soon require, in order to achieve sustainability quickly and effectively, the availability of professional engineers and scientists with a thorough and commanding grasp of the fundamental science is an absolutely essential prerequisite. This

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book provides this for solar power generating systems.

An authoritative guide to the various systems related to navigation, control, and other instrumentation used in a typical aircraft Aircraft Systems offers an examination of the most recent developments in aviation as it relates

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to instruments, radio navigation, and communication. Written by a noted authority in the field, the text includes in-depth descriptions of traditional systems, reviews the latest developments, as well as gives information on the technologies that are likely to emerge in the future. The

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author presents material on essential topics including instruments, radio propagation, communication, radio navigation, inertial navigation, and puts special emphasis on systems based on MEMS. This vital resource also provides chapters on solid state gyroscopes, magnetic compass,

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propagation modes of radio waves, and format of GPS signals. Aircraft Systems is an accessible text that includes an investigation of primary and secondary radar, the structure of global navigation satellite systems, and more. This important text: Contains a description of the historical

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development of the latest technological developments in aircraft instruments, communications and navigation Gives several “interesting diversion” topics throughout the chapters that link the topics discussed to other developments in aerospace Provides examples of instruments and

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navigation systems in actual use in cockpit photographs obtained during the authors work as a flight instructor Includes numerous worked examples of relevant calculations throughout the text and a set of problems at the end of each chapter Written for upper undergraduates in aerospace

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engineering and pilots in training, Aircraft Systems offers an essential guide to both the traditional and most current developments in aviation as it relates to instruments, radio navigation, and communication. Although microwaves and coherent optics, being two of the largest and

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most useful branches of electrical engineering to emerge technologically, are usually considered as distinct subjects, many of the underlying fundamental principles, scientific achievements, and practical applications have common features. Following the evolution of the initial

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principles and techniques during the closing decade of the last century, microwave engineering has long matured to a stage of ready availability of components, automation and accuracy of measurement, economical manufacturing methods, and application of sophisticated systems.

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Further, this development of electromagnetic phenomena having spatial and temporal coherence has, based on several centuries of study and practice of noncoherent light, in the last two decades reached the optical region. Hence, it is now practicable to consider a

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comprehensive treatment of these two fields, division being made by subject matter rather than by the artificial distinctions of frequency and/or wavelength ranges. However, a full text on the combined subjects would be very large and unwieldy and, thus, this Bibliography is presented in the

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hope that it will prove useful as a compact reference source to a large body of workers and, by putting forward the latest scientific and technical advances, stimulate a multi-disciplinary approach. The material of the book commences with the fundamentals of radiation and matter,

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progressing through components and devices, amplification and generation, transmission, reception and processing of information, and methods of measurement to conclude with a wide range of applications.

Radar System Analysis, Design, and Simulation

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Array and Phased Array Antenna
Basics

Emerging Waveguide Technology

IUTAM-IASS Symposium on

Deployable Structures: Theory and
Applications

Antenna And Wave Propagation

Antenna Patterns from Single

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Slots in Carbon Fibre Reinforced Plastic Waveguides Slotted Waveguide Antenna Stiffened Structure (SWASS) is a type of conformal load-bearing antenna where top-hat cross-section stiffeners on skins, or

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blade stiffeners in sandwich panels, serve the dual purpose of acting both as structural stiffeners and as waveguides. Cutting slots through the outer skin and into these waveguide stiffeners creates slotted

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waveguide antenna arrays. Two of the key requirements for SWASS are adequate antenna performance and the capability to design SWASS antenna arrays. The first step toward this goal, and the subject of this

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report, was to satisfy these requirements for single slot antennas. Eight 100 mm long waveguide antennas, with internal cross-section of 22.86 mm x 10.16 mm and a single slot, were manufactured from

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aerospace grade carbon fibre reinforced plastic (CFRP). Two slotted waveguides antennas were also manufactured from copper rigid rectangular WR-90 waveguide. Antenna gain in the bore-sight direction from 8 to

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12 GHz and the E- and H- plane antenna pattern at 10 GHz were measured for each slotted waveguide. The radiation pattern of CFRP antennas was similar to that of copper antennas, with approximately 3

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dB reduction in gain. Measured behaviour correlated well with the predictions made using CST? Microwave Studio.

Discrepancies of up to 2 dB occurred at frequencies above 10 GHz. It is concluded that

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losses due to the finite conductivity of CFRP are acceptable for first generation SWASS and simulation accuracy is sufficient for initial array design.

An authoritative work on

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Synthetic Aperture Radar
system engineering, with key
focus on high resolution
imaging, moving target
indication, and system
engineering technology
Synthetic Aperture Radar

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(SAR) is a powerful microwave remote sensing technique that is used to create high resolution two or three-dimensional representations of objects, such as landscapes, independent of weather conditions and sunlight

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illumination. SAR technology is a multidisciplinary field that involves microwave technology, antenna technology, signal processing, and image information processing. The use of SAR technology continues

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grow at a rapid pace in a variety of applications such as high-resolution wide-swath observation, multi-azimuth information acquisition, high-temporal information acquisition, 3-D terrain

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mapping, and image quality improvement. Design Technology of Synthetic Aperture Radar provides detailed coverage of the fundamental concepts, theories, technology, and design of SAR

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systems and sub-systems.

Supported by the author ' s over two decades of research and practice experience in the field, this in-depth volume systematically describes SAR design and presents the latest

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research developments.

Providing examination of all topics relevant to SAR—from radar and antenna system design to receiver technology and signal and image information processing—this

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comprehensive resource:

Provides wide-ranging, up-to-date examination of all major topics related to SAR science, systems, and software Includes guidelines to conduct grounding system designs and analysis

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Offers coverage of all SAR algorithm classes and detailed SAR algorithms suitable for enabling software implementations Surveys SAR and computed imaging literature of the last sixty years

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Emphasizes high resolution imaging, moving target indication, and system engineering Design Technology of Synthetic Aperture Radar is indispensable for graduate students majoring in SAR

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system design, microwave antenna, signal and information processing as well as engineers and technicians involved in SAR system techniques.

American Practical Navigator:
Text and appendices. 1977 ed

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Design Technology of Synthetic
Aperture Radar

An Epitome of Navigation
Patents

Theory and Practice

*A Ku band slotted waveguide
antenna having a cosecant*

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squared radiation pattern is described. The antenna was designed and constructed by means of a method utilizing displaced, inclined, shunt slots in the broad face of WR 62 waveguide. A gain of 12 dB at

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15.84 GHz was measured, with crosspolarization rejection of 20 dB. Design equations and curves are included. (Author).

*Radar Navigation and Maneuvering Board Manual
Pub[lication] - Defense Mapping*

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