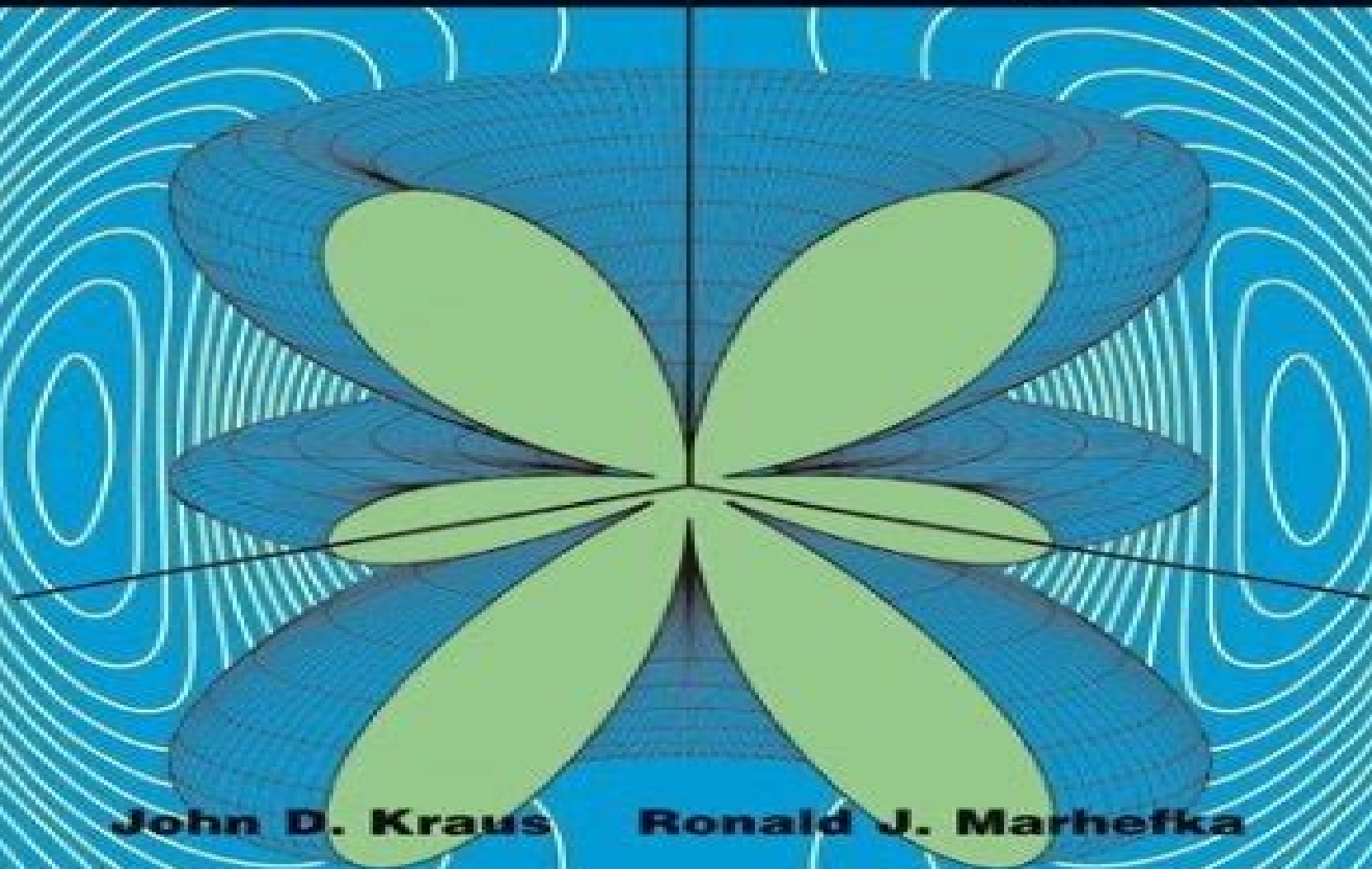


THIRD EDITION

# Antennas

For All Applications



**John D. Kraus**

**Ronald J. Marhefka**

# Antennas 3rd Edition By J D Kraus

**Murthy, T.V.S. Arun**



### **Antennas 3rd Edition By J D Kraus:**

**Antennas for All Applications** John Daniel Kraus, Ronald J. Marhefka, 2002 This is an exciting revision of John Kraus classic book Antennas which has been long known as the Antenna Bible A new co author Ronald Marhefka has joined the author team for this revision Many new modern applications have been added thus the title change to Antennas with All Applications As well the references have been updated to include recent additions to the literature Additionally the book has been reorganized to make it more user friendly for both students and professionals The book now covers the fundamentals of various antennas and concepts in the first half of the book and then gets into more details on those same topics later in the book This allows a one semester course to just cover the fundamentals if desired and a professional to focus on advanced topics if he or she wants

Introduction to RF Propagation John S. Seybold, 2005-09-19 An introduction to RF propagation that spans all wireless applications This book provides readers with a solid understanding of the concepts involved in the propagation of electromagnetic waves and of the commonly used modeling techniques While many books cover RF propagation most are geared to cellular telephone systems and therefore are limited in scope This title is comprehensive it treats the growing number of wireless applications that range well beyond the mobile telecommunications industry including radar and satellite communications The author's straightforward clear style makes it easy for readers to gain the necessary background in electromagnetics communication theory and probability so they can advance to propagation models for near earth indoor and earth space propagation Critical topics that readers would otherwise have to search a number of resources to find are included RF safety chapter provides a concise presentation of FCC recommendations including application examples and prepares readers to work with real world propagating systems Antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations Atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can be determined easily Rain attenuation chapter features a summary of how to apply the ITU and Crane rain models Satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination Examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence References provided throughout the book enable readers to explore particular topics in greater depth Additionally an accompanying Wiley ftp site provides supporting MathCad files for select figures in the book With its emphasis on fundamentals detailed examples and comprehensive coverage of models and applications this is an excellent text for upper level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena

Antennas and Radar for Environmental Scientists and Engineers David

Hysell,2018-03-01 This book gives a complete overview of the scientific and engineering aspects of radio and radar pertaining to studies of the Earth environment The book opens with an analysis of wire antennas antenna arrays and aperture antennas suitable for radar applications Following a treatment of sources of noise the book moves on to give a detailed presentation of the most important scattering mechanisms exploited by radar It then provides an overview of basic signal processing strategies including coherent and incoherent strategies Pulse compression especially binary phase coding and frequency chirping are then analyzed and the radar range Doppler ambiguity function is introduced This is followed by a comprehensive treatment of radio wave propagation in the atmosphere and ionosphere The remainder of the book deals with radar applications The book will be valuable for graduate students and researchers interested in antenna and radar applications across the Earth and environmental sciences and engineering      *Antennas* Yi Huang,2021-09-14

*Antennas* From Theory to Practice Comprehensive coverage of the fundamentals 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 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 frequency microwave engineering radar and radio communications The book details the basics of transmission lines radiowaves and propagation antenna theory antenna analysis and 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 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 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 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 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 mechanisms characteristics and models Discussions of antenna basics and popular antennas including wire type antennas aperture type antennas and antenna arrays Information about antenna manufacturing and measurements including antenna measurement facilities and methods The use of industrial standard simulation tools for antenna design and analysis Perfect for engineers 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 practical introduction to the basics of antennas and antenna design

*Mobile Antenna Systems Handbook* Kyohei Fujimoto,2008 This extensively revised and expanded edition of the Artech bestseller *Mobile Antenna Systems Handbook* puts the very latest technologies design and analysis procedures and

applications at your command It features all new chapters on smart antennas MIMO systems and antennas for recently deployed mobile systems such as RFID UWB and terrestrial digital TV broadcasting and provides a wealth of problem solving guidance for tackling everything from propagation obstacles to SAR safety issues Like the previous editions this ultimate one stop reference is designed to save you a mountain of work You get hands on expertise for every type of mobile antenna base station and terminal system including its theory of operation application strengths and weaknesses performance characteristics design procedures analysis techniques and optimization methods complete with examples and worked out calculations at every step The material is further clarified with 567 diagrams charts and photos bringing mobile antenna selection design and construction into clear focus What s more this resource includes a detailed glossary of antennas and their applications to help you zero in on the right antenna for any job with a flip of the page From integrating MIMO antennas into handsets to expanding system capacities with smart antennas this information packed resource helps you evaluate design and configuration options locate crucial data and calculations perform key analyses and solve challenges standing in the way of your desired results It serves as an indispensable reference helping you design more powerful versatile and compact wireless mobile antenna systems

**Antenna and Array Technologies for Future Wireless Ecosystems** Yingjie Jay Guo, Richard W. Ziolkowski, 2022-07-20 ANTENNA AND ARRAY TECHNOLOGIES FOR FUTURE WIRELESS ECOSYSTEMS Discover a timely and accessible resource on the latest antenna research driving new developments in the field In Antenna and Array Technologies for Future Wireless Ecosystems distinguished academics and authors Drs Y Jay Guo and Richard W Ziolkowski deliver a cutting edge resource for researchers academics students and engineers who need the latest research findings on the newest challenges facing antenna designers who will be creating the technology that drives future 6G and beyond wireless systems and networks This timely and impactful book offers the fundamental knowledge that will facilitate new research activities in the antennas and applied electromagnetics communities and conveys innovative and practical solutions to many wireless industry problems Its international cohort of leading authors delivers their findings on a variety of advanced topics in antenna and array research including metasurface antennas electrically small directive antennas RF millimeter wave and THz antennas and arrays atom based sensors and arrays of quantum emitters The book also includes resources that cover the important topics A thorough introduction to various intelligent and low cost beam scanning beamforming and beam reconfigurable array technologies to support dynamic networking of future systems An exploration of advanced techniques for analyzing large arrays as well as an examination of advanced antenna in package technologies for future mm wave systems Discussions of the latest research on electrically small and extremely large hybrid antenna arrays and photonic beamforming networks to address spectrum scarcity in future systems Low form factor low energy consumption and wireless power transfer antennas for the Internet of Things IoT This book is the companion of the Wiley book by the same authors Advanced Antenna Array Engineering for 6G and Beyond

Wireless Communications Perfect for antenna engineers in academia and industry Antenna and Array Technologies for Future Wireless Ecosystems will also be an essential resource in the libraries of senior undergraduate and graduate students studying antenna engineering applied electromagnetics and seeking a one stop reference for state of the art global antenna and antenna array research activities

**Position, Navigation, and Timing Technologies in the 21st Century** Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2021-01-13 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications It looks at PNT using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing

technologies pnt21book.com

**Introduction to Dual Polarization Weather Radar** V. Chandrasekar, Robert M. Beauchamp, Renzo Bechini, 2023-08-17 An interdisciplinary easy to understand introduction covering fundamental theory and practical applications Featuring numerous operational examples and interpretation of radar observations this is a perfect resource for scientists and engineers working on or with radars as well as senior undergraduate and graduate students

**Circularly Polarized Antennas** Steven Shichang Gao, Qi Luo, Fuguo Zhu, 2014-02-03 This book presents a comprehensive insight into the design techniques for different types of CP antenna elements and arrays In this book the authors address a broad range of topics on circularly polarized CP antennas Firstly it introduces to the reader basic principles design techniques and characteristics of various types of CP antennas such as CP patch antennas CP helix antennas quadrifilar helix antennas QHA printed quadrifilar helix antennas PQHA spiral antenna CP slot antennas CP dielectric resonator antennas loop antennas crossed dipoles monopoles and CP horns Advanced designs such as small size CP antennas broadband wideband and ultra wideband CP antennas are also discussed as well as multi band CP antennas and dual CP antennas The design and analysis of different types of CP array antennas such as broadband CP patch arrays dual band CP arrays CP printed slot arrays single band and multi band CP reflectarrays high gain CP waveguide slot antennas CP dielectric resonator antenna arrays CP active arrays millimetre waveband CP arrays in LTCC and CP arrays with electronically beam switching or beam steering capabilities are described in detail Case studies are provided to illustrate the design and implementation of CP antennas in practical scenarios such as dual band Global Navigation Satellite Systems GNSS receivers satellite communication mobile terminals at the S band Radio Frequency Identification RFID readers at 2.4 GHz and Ka band high speed satellite communication applications It also includes the detailed designs for a wideband Logarithmic spiral antenna that can operate from 3.4 to 7.7 GHz In addition the book offers a detailed review of the recent developments of different types of CP antennas and arrays Presents comprehensive discussions of design techniques for different types of CP antennas small size CP antennas broadband CP antennas multi band CP antennas and CP arrays Covers a wide range of antenna technologies such as microstrip antennas helix quadrifilar helix antenna printed quadrifilar helix antenna dielectric resonator antennas printed slots spiral antennas monopoles waveguide slot arrays reflectarrays active arrays millimetre wave arrays in LTCC electronically beam switching arrays and electronically beam steerable arrays Reviews recent developments in different types of CP antennas and arrays reported by industries researchers and academics worldwide Includes numerous case studies to demonstrate how to design and implement different CP antennas in practical scenarios Provides both an introduction for students in the field and an in depth reference for antenna RF engineers who work on the development of CP antennas Circularly Polarized Antennas will be an invaluable guide for researchers in R system engineers antenna telecom space and satellite postgraduates studying the subjects of antenna and propagation electromagnetics RF microwave millimetre wave systems satellite communications and so on technical managers and

professionals in the areas of antennas and propagation      Electromagnetic Fields (Theory and Problems) Murthy, T.V.S. Arun, 2008 Electromagnetic Fields      **RFID Handbook** Syed A. Ahson, Mohammad Ilyas, 2017-12-19 Radio Frequency Identification RFID tagging is now used by the department of defense and many of the world's largest retailers including Wal Mart As RFID continues to infiltrate industries worldwide organizations must harness a clear understanding of this technology in order to maximize its potential and protect against the potential risks it poses The RFID Handbook provides an overview of RFID technology its associated security and privacy risks and recommended practices that will enable organizations to realize productivity improvements while also protecting sensitive information and the privacy of individuals Expert contributors present a host of applications including RFID enabled automated receiving triage with RFID for massive incidents RFID and NFC in relation to mobile phones and RFID technologies for communication robots and a privacy preserving video surveillance system The unprecedented coverage also includes detailed descriptions of adaptive splitting protocols as well as tree based and probabilistic anti collision protocols Drawing on its distinguished editors and world renowned contributors this one of a kind handbook serves as the ultimate reference on RFID from basic research concepts to future applications      **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      **Antenna Theory and Design** Warren L. Stutzman, Gary A. Thiele, 2012-05-22 Stutzman's 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods New features include additional modern material to make the text more exciting and relevant to practicing engineers new chapters on systems low profile elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic      Metamaterials Benedikt A. Munk, 2009-02-17 A Convincing and Controversial Alternative Explanation of Metamaterials with a Negative Index of Refraction In a book that will generate both support and controversy one of the world's foremost authorities on periodic structures addresses several of the current fashions in antenna design most specifically the popular subject of double negative metamaterials Professor Munk provides a comprehensive theoretical electromagnetic investigation of the issues and concludes that many of the phenomena claimed by researchers may be impossible While denying the existence of negative refraction the author provides convincing alternative explanations for some of the experimental examples in the literature Although the debate on this subject is just beginning Professor Munk has received support by various numerical simulations winning him the encouragement of numerous experts in the field The issues that are raised here have not been addressed thoroughly by the metamaterials community and this book will serve as a catalyst for much healthy debate and discussion



Metamaterials Critique and Alternatives is destined to become a classic resource for graduate students and researchers in electromagnetics antenna theory materials research and chemistry

*Interferometry and Synthesis in Radio Astronomy* A. Richard Thompson, James M. Moran, George W. Swenson Jr., 2017-02-22 This book is open access under a CC BY NC 4.0 license The third edition of this indispensable book in radio interferometry provides extensive updates to the second edition including results and technical advances from the past decade discussion of arrays that now span the full range of the radio part of the electromagnetic spectrum observable from the ground 10 MHz to 1 THz an analysis of factors that affect array speed and an expanded discussion of digital signal processing techniques and of scintillation phenomena and the effects of atmospheric water vapor on image distortion among many other topics With its comprehensiveness and detailed exposition of all aspects of the theory and practice of radio interferometry and synthesis imaging this book has established itself as a standard reference in the field It begins with an overview of the basic principles of radio astronomy a short history of the development of radio interferometry and an elementary discussion of the operation of an interferometer From this foundation it delves into the underlying relationships of interferometry sets forth the coordinate systems and parameters to describe synthesis imaging and examines configurations of antennas for multielement synthesis arrays Various aspects of the design and response of receiving systems are discussed as well as the special requirements of very long baseline interferometry VLBI image reconstruction and recent developments in image enhancement techniques and astrometric observations Also discussed are propagation effects in the media between the source and the observer and radio interference factors that limit performance Related techniques are introduced including intensity interferometry optical interferometry lunar occultations tracking of satellites in Earth orbit interferometry for remote Earth sensing and holographic measurements of antenna surfaces This book will benefit anyone who is interested in radio interferometry techniques for astronomy astrometry geodesy or electrical engineering

**Electromagnetic Waves** Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of *Electromagnetic Waves* was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell's equations to applications in optical communications and photonics *Electromagnetic Waves* Second Edition forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G. Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell's equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna

effective height Illustrating the concepts with examples in every chapter Electromagnetic Waves Second Edition is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals Practical Antenna Design for Wireless Products Henry Lau, 2019-07-31 This comprehensive resource covers both antenna fundamentals and practical implementation strategies presenting antenna design with optimum performance in actual products and systems The book helps readers bridge the gap between electromagnetic theory and its application in the design of practical antennas in real products Practical implementation strategies in products and systems will be addressed in order to design antennas in the context of actual product environments including PCB layout component placement and casing design Practical design examples on wearable electronic products are presented with a systematic approach to designing antennas for actual products The book introduces antenna fundamentals to provide the basic concepts and necessary mathematics on electromagnetic analysis followed by advanced antenna elements The concept of electromagnetic simulation is presented The advantages and disadvantages of different numerical methods in antenna modeling are also discussed Several commercial antenna design and simulation tools are introduced allowing hands on practice of antenna modeling and simulation

*Polarimetric SAR Imaging* Yoshio Yamaguchi, 2020-08-18 Radar polarimetry has been highly sought after for its use in the precise monitoring of Earth's surface Polarimetric SAR Imaging explains the basic concepts of polarimetry and its diverse applications including deforestation tree classification landslide detection tsunamis volcano eruptions and ash distribution snow accumulation rice field monitoring urban area exploration ship detection among other applications The explanations use actual data sets taken by Advanced Land Observing Satellite ALOS and ALOS2 With the increasing problems presented by climate change there is a growing need for detailed earth observation using polarimetric data As the treatment of vector nature of radar waves is complex there is a gap between the theory and the application Polarimetric SAR Imaging Theory and Applications addresses and fills this gap Features Provides cutting edge polarimetric applications for earth observation with full color images Includes detailed descriptions of theory equations expansions and flowcharts and numerous real examples Explains concepts data analysis and applications in simple and clear language aimed at an intuitive comprehension Provides specific and unique examples of PolSAR images derived from actual space and airborne systems ALOS ALOS2 PiSAR x L Covers the wide range of the radar polarimetry especially the decomposition of the polarimetry data an original method developed by the author using the Japanese polarimetric SAR data Illustrated in full color using images generated by polarimetric techniques this book is easy to understand and use for both student and expert and is an excellent resource both in the classroom and in the field **A Guide to the Wireless Engineering Body of Knowledge (WEBOK)** G. Giannattasio, J. Erfanian, P. Wills, Hung Q. Nguyen, T. Croda, K. Rauscher, X. Fernando, N. Pavlidou, K. Daniel Wong, IEEE Communications Society, 2009-03-17 The ultimate reference book for professionals in the wireless industry The information presented in this book reflects the evolution of wireless technologies their impact on the profession and the industry's

commonly accepted best practices Organized into seven main areas of expertise A Guide to the Wireless Engineering Body of Knowledge WEBOK enhances readers understanding of Wireless access technologies Network and service architecture Network management and security Radio frequency engineering propagation and antennas Facilities infrastructure Agreements standards policies and regulations Wireless engineering fundamentals Complemented with a large number of references and suggestions for further reading the WEBOK is an indispensable resource for anyone working in the wireless industry

**Design of Ultra Wideband Antenna Matching Networks** Binboga Siddik Yarman, 2008-08-25 Design of Ultra Wideband Antenna Matching Networks via Simplified Real Frequency Technique SRFT will open up a new horizon for design engineers researchers undergraduate and graduate students to construct multi band and ultra wideband antenna matching networks for antennas which in turn will push the edge of technology to manufacture new generation of complex communication systems beyond microwave frequencies both in commercial and military line In Design of Ultra Wideband Antenna Matching Networks many real life examples are presented to design antenna matching networks over HF and cellular commercial multi band frequencies For each example open MatLab source codes are provided so that the reader can easily generate and verify the results of the examples included in the book

The Top Books of the Year Antennas 3rd Edition By J D Kraus The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Antennas 3rd Edition By J D Kraus : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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### **Antennas 3rd Edition By J D Kraus Introduction**

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