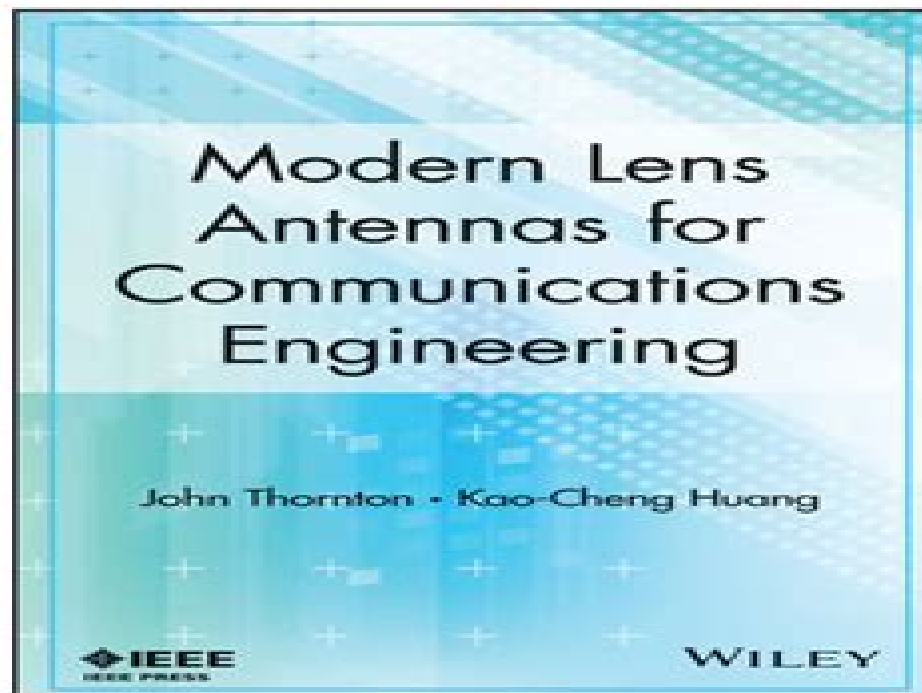


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Modern Lens Antennas For Communications Engineering

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Modern Lens Antennas For Communications Engineering:

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. *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," it 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, geospatialists, meteorologists, astronomers, and practitioners in order to present the latest applications in space science, telecommunications, meteorology, remote sensing, and related fields.

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

Low-profile Natural and Metamaterial Antennas Hisamatsu Nakano, 2016-09-02

Presents recent progress in low profile natural and metamaterial antennas This book presents the full range of low profile antennas that use novel elements and take advantage of new concepts in antenna implementation including metamaterials Typically formed by constructing lattices of simple elements metamaterials possess electromagnetic properties not found in naturally occurring materials and show great promise in a number of low profile antenna implementations Introductory chapters define various natural and metamaterial based antennas and provide the fundamentals of writing computer programs based on the method of moments MoM and the finite difference time domain method FDTD Chapters then discuss low profile natural antennas classified into base station antennas mobile card antennas beam forming antennas and satellite satellite and earth satellite communications antennas Final chapters look at various properties of low profile metamaterial based antennas revealing the strengths and limitations of the metamaterial based straight line antenna metaline antenna metamaterial based loop antenna metaloop open metaloop antenna the effects of counter dual band CP radiation and more Offers comprehensive coverage of both metamaterials and natural materials for low profile antennas Written by an internationally recognized expert in the field of low profile antennas Depicts actual high performance low profile antennas for the antenna engineer Draws on classroom tested material in graduate courses and short courses over the past 20 years Low Profile Natural and Metamaterial Antennas is a must have reference book for advanced undergraduate and graduate level students as well as antenna engineers interested in low profile antenna design theory

Time-Domain Electromagnetic Reciprocity in Antenna Modeling Martin Stumpf, 2019-09-02 Describes applications of time domain EM reciprocity and the Cagniard deHoop technique to achieve solutions to fundamental antenna radiation and scattering problems This book offers an account of applications of the time domain electromagnetic TD EM reciprocity theorem for solving selected problems of antenna theory It focuses on the development of both TD numerical schemes and analytical methodologies suitable for analyzing TD EM wave fields associated with fundamental antenna topologies Time Domain Electromagnetic Reciprocity in Antenna Modeling begins by applying the reciprocity theorem to formulate a fundamentally new TD integral equation technique the Cagniard deHoop method of moments CdH MoM regarding the pulsed EM scattering and radiation from a thin wire antenna Subsequent chapters explore the use of TD EM reciprocity to evaluate the impact of a scatterer and a lumped load on the performance of wire antennas and propose a straightforward methodology for incorporating ohmic loss in the introduced solution methodology Other topics covered in the book include the pulsed EM field coupling to transmission lines formulation of the CdH MoM concerning planar antennas and more In addition the book is supplemented with simple MATLAB code implementations so that readers can test EM reciprocity by conducting numerical experiments In addition this text Applies the thin sheet boundary conditions to incorporate dielectric conductive and plasmonic properties of planar antennas Provides illustrative numerical examples that validates the described methodologies Presents analyzed problems at a fundamental level so that readers can fully grasp the underlying principles of solution

methodologies Includes appendices to supplement material in the book Time Domain Electromagnetic Reciprocity in Antenna Modeling is an excellent book for researchers and professors in EM modeling and for applied researchers in the industry

Novel Advances in Microsystems Technologies and Their Applications Laurent A. Francis, Krzysztof Iniewski, 2017-07-28 Microsystems technologies have found their way into an impressive variety of applications from mobile phones computers and displays to smart grids electric cars and space shuttles This multidisciplinary field of research extends the current capabilities of standard integrated circuits in terms of materials and designs and complements them by creating innovative components and smaller systems that require lower power consumption and display better performance Novel Advances in Microsystems Technologies and their Applications delves into the state of the art and the applications of microsystems and microelectronics related technologies Featuring contributions by academic and industrial researchers from around the world this book Examines organic and flexible electronics from polymer solar cell to flexible interconnects for the co integration of micro electromechanical systems MEMS with complementary metal oxide semiconductors CMOS Discusses imaging and display technologies including MEMS technology in reflective displays the fabrication of thin film transistors on glass substrates and new techniques to display and quickly transmit high quality images Explores sensor technologies for sensing electrical currents and temperature monitoring structural health and critical industrial processes and more Covers biomedical microsystems including biosensors point of care devices neural stimulation and recording and ultra low power biomedical systems Written for researchers engineers and graduate students in electrical and biomedical engineering this book reviews groundbreaking technology trends and applications in microelectronics Its coverage of the latest research serves as a source of inspiration for anyone interested in further developing microsystems technologies and creating new applications

From ER to E.T. Rajeev Bansal, 2016-12-06 This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives From ER to ET How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders scientific underpinnings ethical issues and applications through history Utilizing a format of short essays this book explains in a balanced and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us Quizzes at the end of each chapter provide the reader with a deeper understanding of the material This book is a valuable resource for microwave engineers of varying levels of experience and for instructors to motivate their students and add depth to their assignments In addition this book Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering emphasized in current ABET accreditation criteria Includes quizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal PhD is a professor of Electrical and Computer Engineering at the University of Connecticut He is a member of IEEE and the Connecticut Academy of Science and Engineering He is a Fellow of the Electromagnetics Academy His editing

credits include Fundamentals of Engineering Electromagnetics and Engineering Electromagnetics Applications Dr Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine

Electromagnetic Wave Propagation, Radiation, and Scattering Akira Ishimaru, 2017-08-09 One of the most methodical treatments of electromagnetic wave propagation radiation and scattering including new applications and ideas Presented in two parts this book takes an analytical approach on the subject and emphasizes new ideas and applications used today Part one covers fundamentals of electromagnetic wave propagation radiation and scattering It provides ample end of chapter problems and offers a 90 page solution manual to help readers check and comprehend their work The second part of the book explores up to date applications of electromagnetic waves including radiometry geophysical remote sensing and imaging and biomedical and signal processing applications Written by a world renowned authority in the field of electromagnetic research this new edition of Electromagnetic Wave Propagation Radiation and Scattering From Fundamentals to Applications presents detailed applications with useful appendices including mathematical formulas Airy function Abel s equation Hilbert transform and Riemann surfaces The book also features newly revised material that focuses on the following topics Statistical wave theories which have been extensively applied to topics such as geophysical remote sensing bio electromagnetics bio optics and bio ultrasound imaging Integration of several distinct yet related disciplines such as statistical wave theories communications signal processing and time reversal imaging New phenomena of multiple scattering such as coherent scattering and memory effects Multiphysics applications that combine theories for different physical phenomena such as seismic coda waves stochastic wave theory heat diffusion and temperature rise in biological and other media Metamaterials and solitons in optical fibers nonlinear phenomena and porous media Primarily a textbook for graduate courses in electrical engineering Electromagnetic Wave Propagation Radiation and Scattering is also ideal for graduate students in bioengineering geophysics ocean engineering and geophysical remote sensing The book is also a useful reference for engineers and scientists working in fields such as geophysical remote sensing bio medical engineering in optics and ultrasound and new materials and integration with signal processing

Boundary Conditions in Electromagnetics Ismo V. Lindell, Ari Sihvola, 2019-11-26 A comprehensive survey of boundary conditions as applied in antenna and microwave engineering material physics optics and general electromagnetics research Boundary conditions are essential for determining electromagnetic problems Working with engineering problems they provide analytic assistance in mathematical handling of electromagnetic structures and offer synthetic help for designing new electromagnetic structures Boundary Conditions in Electromagnetics describes the most general boundary conditions restricted by linearity and locality and analyzes basic plane wave reflection and matching problems associated to a planar boundary in a simple isotropic medium This comprehensive text first introduces known special cases of particular familiar forms of boundary conditions perfect electromagnetic conductor impedance and DB boundaries and then examines various general forms of boundary conditions

Subsequent chapters discuss sesquilinear boundary conditions and practical computations on wave scattering by objects defined by various boundary conditions The practical applications of less common boundary conditions such as for metamaterial and metasurface engineering are referred to throughout the text This book Describes the mathematical analysis of fields associated to given boundary conditions Provides examples of how boundary conditions affect the scattering properties of a particle Contains ample in chapter exercises and solutions complete references and a detailed index Includes appendices containing electromagnetic formulas Gibbsian 3D dyadics and four dimensional formalism Boundary Conditions in Electromagnetics is an authoritative text for electrical engineers and physicists working in electromagnetics research graduate or post graduate students studying electromagnetics and advanced readers interested in electromagnetic theory

Discontinuities in the Electromagnetic Field M. Mithat Idemen, 2011-10-18 A multifaceted approach to understanding calculating and managing electromagnetic discontinuities Presenting new innovative approaches alongside basic results this text helps readers better understand calculate and manage the discontinuities that occur within the electromagnetic field Among the electromagnetic discontinuities explored in this volume are Bounded jump discontinuities at the interfaces between two media or on the material sheets that model very thin layers Unbounded values at the edges of wedge type structures Unbounded values at the tips of conical structures The text examines all the key issues related to the bodies that carry the interfaces edges or tips whether these bodies are at rest or in motion with respect to an observer In addition to its clear explanations the text offers plenty of step by step examples to clarify complex theory and calculations Moreover readers are encouraged to fine tune their skills and knowledge by solving the text s problem sets Three fundamental classical theories serve as the foundation for this text distributions confluence and the special theory of relativity The text sets forth the fundamentals of all three of these theories for readers who are not fully familiar with them Moreover the author demonstrates how to solve electromagnetic discontinuity problems by seamlessly combining all three theories into a single approach With this text as their guide readers can apply a unique philosophy and approach to the investigation and development of structures that have the potential to enhance the capabilities of electronics antennas microwaves acoustics medicine and many more application areas

Electromagnetic Modeling and Simulation Levent Sevgi, 2014-03-13 This unique book presents simple easy to use but effective short codes as well as virtual tools that can be used by electrical electronic communication and computer engineers in a broad range of electrical engineering problems Electromagnetic modeling is essential to the design and modeling of antenna radar satellite medical imaging and other applications In this book author Levent Sevgi explains techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools Unique in coverage and tutorial approach Electromagnetic Modeling and Simulation covers fundamental analytical and numerical models that are widely used in teaching research and engineering designs including mode and ray summation approaches with the canonical 2D nonpenetrable parallel plate

waveguide as well as FDTD MoM and SSPE scripts The book also establishes an intelligent balance among the essentials of EM MODSIM The Problem the physics The Theory and Models mathematical background and analytical solutions and The Simulations code developing plus validation verification and calibration Classroom tested in graduate level and short courses Electromagnetic Modeling and Simulation Clarifies concepts through numerous worked problems and quizzes provided throughout the book Features valuable MATLAB based user friendly effective engineering and research virtual design tools Includes sample scenarios and video clips recorded during characteristic simulations that visually impact learning available on wiley com Provides readers with their first steps in EM MODSIM as well as tools for medium and high level code developers and users Electromagnetic Modeling and Simulation thoroughly covers the physics mathematical background analytical solutions and code development of electromagnetic modeling making it an ideal resource for electrical engineers and researchers Advanced Radio Frequency Antennas for Modern Communication and Medical Systems Albert

Sabban,2020-09-23 The main objective of this book is to present novel radio frequency RF antennas for 5G IOT and medical applications The book is divided into four sections that present the main topics of radio frequency antennas The rapid growth in development of cellular wireless communication systems over the last twenty years has resulted in most of world population owning smartphones smart watches I pads and other RF communication devices Efficient compact wideband antennas are crucial in RF communication devices This book presents information on planar antennas cavity antennas Vivaldi antennas phased arrays MIMO antennas beamforming phased array reconfigurable Fabry Perot cavity antennas and time modulated linear array **Wideband, Multiband, and Smart Reconfigurable Antennas for Modern Wireless**

Communications Matin, Mohammad A.,2015-08-26 Modern society thrives on communication that is instant and available at all times a constant exchange of information that encompasses everything from video streaming to GPS navigation Experts even suggest that in the near future everything from our cars to our kitchen appliances will be connected to the internet a feat that would not be possible without advanced wireless technology Wideband Multiband and Smart Reconfigurable Antennas for Modern Wireless Communications showcases current trends and novel approaches in the design and analysis of the antennas that make wireless applications possible while also identifying unique integration opportunities for antennas and wireless applications to work together By featuring both theoretical and experimental approaches to integration this book highlights specific design issues to assist a wide range of readers including students researchers academics and industry practitioners This publication features chapters on a broad scope of topics including algorithms and antenna optimization wireless infrastructure development wireless applications of intelligent algorithms antenna architecture and antenna reconfiguration techniques **Non-Imaging Microwave and Millimetre-Wave Sensors for Concealed Object**

Detection Boris Y. Kapilevich,Stuart W. Harmer,Nicholas J. Bowring,2017-12-19 In response to the ever increasing global threat of terrorist attacks the personal screening industry has been growing at a rapid rate Many methods have been

developed for detecting concealed weapons and explosives on the human body In this important new book the authors discuss their experiences over the last decade designing and testing microwave and millimetre wave detection and screening systems It includes examples of actual devices that they have built and tested along with test results that were obtained in realistic scenarios The book focuses on the development of non imaging detection systems which are similar to radar These systems do not form a conventional image of the scene and the person s being screened Instead the sensors detect and analyze the effect that the body and any concealed objects has on a transmitted waveform These systems allow remote detection of both metallic and dielectric devices concealed on the human body in both indoor and outdoor environments The book discusses a number of sensor types including active millimetre wave sensors using the direct detection and the heterodyne approach active microwave sensors for CNR based object detection passive millimetre wave sensors and the role of shielding effects in operating non imaging MM wave sensors The goal of this book is to systemize the test results obtained by the authors helping specialists to develop improved screening systems in the future Another goal is to show how the use of non imaging systems can reduce the cost of the screening process

Communications Engineering e-Mega Reference Erik Dahlman,Ed da Silva,Ron Olexa,Bruno Clerckx,Luis M. Correia,Philip A Chou,Mihaela van der Schaar,W. K. Ling,Ronald Kitchen,Daniel M. Dobkin,Dan Bensky,Claude Oestges,David Morgan,Juanita Ellis,Charles Pursell,Joy Rahman,Leonidas Guibas,Feng Zhao,Alan C. Bovik,Bruce A. Fette,Keith Jack,Farid Dowla,Stefan Parkvall,Johan Skold,Casimer DeCusatis,2009-03-23 A one stop Desk Reference for R this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material covers a wide scope of topics including voice computer facsimile video and multimedia data technologies A fully searchable Mega Reference Ebook providing all the essential material needed by Communications Engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference Over 2 500 pages of reference material including over 1 500 pages not included in the print edition

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 [A Guide to the Wireless Engineering Body of Knowledge \(WEBOK\)](#) Andrzej Jajszczyk,2012-10-16 The ultimate reference on wireless technology now updated and revised Fully updated to incorporate the latest developments and standards in the field A Guide to the Wireless Engineering Body of Knowledge Second Edition provides industry professionals with a one stop reference to everything they need to design implement operate secure and troubleshoot wireless networks Written by a group of international experts the book offers an unmatched breadth of coverage and a unique focus on real world engineering issues The authors draw upon extensive experience in all areas of the technology to explore topics with proven practical

applications highlighting emerging areas such as Long Term Evolution LTE in wireless networks The new edition is thoroughly revised for clarity reviews wireless engineering fundamentals and features numerous references for further study Based on the areas of expertise covered in the IEEE Wireless Communication Engineering Technologies WCET exam this book explains Wireless access technologies including the latest in mobile cellular technology Core network and service architecture including important protocols and solutions Network management and security from operations process models to key security issues Radio engineering and antennas with specifics on radio frequency propagation and wireless link design Facilities infrastructure from lightning protection to surveillance systems With this trusted reference at their side wireless practitioners will get up to speed on advances and best practices in the field and acquire the common technical language and tools needed for working in different parts of the world

Printed Antennas for 5G Networks Ladislau Matekovits, Binod Kumar Kanaujia, Jugul Kishor, Surendra Kumar Gupta, 2022-04-02 The book provides a comprehensive overview of antennas for 5G technology such as MIMO multiband antennas Magneto Electric Dipole Antenna and PIFA Antenna for 5G networks phased array antennas for 5G access beam forming and beam steering issues 5G antennas for specific applications smartphone cognitive radio and advance antenna concept and materials for 5G The book also covers optimizations methods for passive and active devices in mm Wave 5G networks It explores topics which influence the design and characterization of antennas such as data rates high isolation pattern and spatial diversity making 5G antennas more suitable for a multipath environment The book represents a learning tool for researchers in the field and enables engineers designers and manufacturers to identify key design challenges of antennas for 5G networks and characterize novel antennas for 5G networks

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