



Substrate Integrated Antennas and Arrays

Yu Jian Cheng



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Substrate Integrated Antennas and Arrays Yu Jian Cheng, 2018-09-03 Substrate Integrated Antennas and Arrays provides a single source for cutting edge information on substrate integrated circuits SICs substrate integrated waveguide SIW feeding networks SIW slot array antennas SIC traveling wave antennas SIW feeding antennas SIW monopulse antennas and SIW multibeam antennas Inspired by the author's extensive research this comprehensive book Describes a revolutionary SIC based antenna technique with the potential to replace existing antenna technologies Examines theoretical and experimental results connected to electrical and mechanical performance Explains how to overcome difficulties in meeting bandwidth gain and efficiency specifications Substrate Integrated Antennas and Arrays offers valuable insight into the state of the art of SIC and SIW antenna technologies presenting research useful to the development of wireless communication base station antennas portable microwave point to point systems collision avoidance radars conformal antennas and satellite antennas

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Substrate Integrated Suspended Line Antenna and Arrays Kaixue Ma, Ningning Yan, Yu Luo, 2023-11-21 This book delves deeply into the substrate integrated suspended line antenna technologies and evaluates its potential to replace conventional three dimensional 3D metal based antennas Over the years studies on substrate integrated suspended line antennas have captivated engineers and scientists from the antennas and related engineering fields all aiming to achieve low cost and low loss characteristics The book establishes a fundamental framework for this topic while emphasizing the importance of substrate integrated suspended line antennas in the wireless communication and radar systems It is designed for undergraduate and graduate students who are interested in antenna technology researchers investigating substrate integrated technology and antenna engineers working on low cost and low loss antennas and arrays *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

Design of Millimeter-wave Substrate Integrated Waveguide Antennas and Arrays for 5G Applications [1],2018 **Design and**

Analysis of Substrate-integrated Cavity-backed Antenna Arrays for Ku-band Applications Mohamed Hamed Awida Hassan,2011 Mobile communication has become an essential part of our daily life We love the flexibility of wireless cell phones and even accept their lower quality of service when compared to wired links Similarly we are looking forward to the day that we can continue watching our favorite TV programs while travelling anywhere and everywhere including satellite channels and the wish list goes on Mobility flexibility and portability are the themes of the next generation communication Motivated and fascinated by such technology breakthroughs this effort is geared towards enhancing the quality of wireless services and bringing mobile satellite reception one step closer to the market On the other hand phased array antennas are vital components for RADAR applications where the antenna is required to have certain scan capabilities One of the main concerns in that perspective is how to avoid the potential of scan blindness in the required scan range Targeting to achieve wideband wide scan angle phased arrays free from any scan blindness our efforts is also geared Conventionally the key to lower the profile of the antenna is to use planar structures In that perspective microstrip patch antennas have drawn the attention of antenna engineers since the 1970s due to their attractive features of being low profile compact size light weight and amenable to low cost PCB fabrication processes However patch elements are basically resonating at a single frequency

typically have Antenna Engineering Handbook John Volakis,2018-11-05 The gold standard reference on the design and application of classic and modern antennas fully updated to reflect the latest advances and technologies This new edition of the bible of antenna engineering has been updated to provide start to finish coverage of the latest innovations in antenna design and application You will find in depth discussion of antennas used in modern communication systems mobile and personal wireless technologies satellites radar deployments flexible electronics and other emerging technologies including 5G terahertz and wearable electronics Antenna Engineering Handbook Fifth Edition is bolstered by real world examples hundreds of illustrations and an emphasis on the practical aspects of antennas Featuring 60 chapters and contributions from more than 80 renowned experts this acclaimed resource is edited by one of the world s leading antenna authorities This edition features all of the classic antenna types plus new and emerging designs with 13 all new chapters and important updates to nearly all chapters from past editions Antenna Engineering Handbook Fifth Edition clearly explains cutting edge applications in WLANs automotive systems PDAs and handheld devices making it an indispensable companion for today s antenna practitioners and developers Coverage includes Antenna basics and classic antennas Design approaches for antennas and arrays Wideband and multiband antennas Antennas for mobile devices and PDAs automotive applications and aircraft Base station and smart antennas Beamforming and 5G antennas Millimeter wave and terahertz antennas Flexible wearable thin film origami dielectric and on chip antennas MIMO antennas and phased arrays Direction finding and GPS antennas Active antennas Low profile wideband antennas Nanoantennas Reflectors and other satellite and radio telescope antennas Low frequency HF VHF UHF ECM and ESM antennas Impedance matching techniques and material characteristics Metastructured and frequency selective surfaces Propagation and guided structures Computational techniques and toolsets Indoor and outdoor measurements **Substrate Integrated Waveguide Horn Slot Antenna Array** Saritha Mugiti,2011 Substrate integrated waveguide SIW is a rectangular dielectric filled waveguide which is synthesized in a planar substrate with arrays of metallic vias to realize bilateral side walls and its transitions with planar structures These vias act as walls of the waveguide supporting current flow thus allowing for waveguide mode propagation Substrate integrated waveguide is suggested for low loss low cost and high density integration applications SIW preserves the advantages from both the traditional rectangular waveguide and microstrip for easy integration It is used in designing passive circuits such as resonators couplers filters power dividers circulators and antennas Here full wave analysis is used to design microwave components such as power dividers T junctions and right angle bends Then a transmission line concept is used to construct a feeding network based on these components to speed up the design process This concept is verified with full wave analysis Co simulation technique is investigated and implemented for the feeding network using these passive components resulting in reduced computation time The response of the feeding network with the antennas such as an H plane horn in an array environment is investigated In the process modified designs for the H plane horn with a novel concept of a slot on the H

plane horn are achieved and used as elements for the linear arrays *Design of Millimeter-wave Planar Antenna Arrays with Substrate Integrated Waveguide Feeds* [10],2015 **Microwave/millimeter-wave Beam Steering/shaping Phased Antenna Arrays and Planar Imaging Antenna Arrays for Plasma Diagnostic Application** Lu Yang,2007 *Substrate Integrated Waveguide Antenna Systems* Sara Salem Hesari,2018 Due to high demand for planar structures with low loss a considerable amount of research has been done to the design of substrate integrated waveguide SIW components in the mm wave and microwave range SIW has many advantages in comparison to conventional waveguides and microstrip lines such as compact and planar structure ease of fabrication low radiation loss high power handling ability and low cost which makes it a very promising technology for current and future systems operating in K band and above Therefore all the work presented in this dissertation focuses on SIW technology Five different antenna systems are proposed to verify the advantages of using SIW technology First a novel K band end re SIW circularly polarized CP antenna system on a single layer printed circuit board is proposed A high gain SIW H plane horn and a Vivaldi antenna are developed to produce two orthogonal polarizations in the plane of the substrate CP antennas have become very popular because of their unique characteristics and their applications in satellites radars and wireless communications Second a K band front end system for tracking applications is presented The circuit comprises an antenna array of two Vivaldi antennas a frequency selective power combiner and two frequency selective SIW crossovers which eliminate the need for subsequent filtering The integration of monopulse systems in planar printed circuit SIW technology combined with the added benefits of filtering functions is of great importance to the antennas and propagation community Third a phased array antenna system consisting of 24 radiating element is designed as feed system for reflector antennas in radio astronomy applications A Ku band antipodal dipole antenna with wide bandwidth low cross polarization and wide beamwidth is suggested as the radiating element Forth four different right angled power dividers including in phase and out of phase dividers as feed systems for antenna arrays are introduced TE₁₀ to TE_{q0} mode transducers are used for obtaining two three and four output dividers with phase control ability at K and Ka band This feature is practical for instance when designing tracking systems since they are employed to obtain controllable phase distributions over the output ports Fifth a Ku band beam steering antenna system which is applicable to use for wireless communications radar systems and also 5G applications is proposed This antenna system uses variable reflection type phase shifters which electrically steer the beam over a 50 degree scan range Therefore the SIW technology's reliability and also promising behavior in the microwave frequency range is proven for different applications

Antenna Engineering Handbook, Fourth Edition John Volakis,2007-06-08 The bible of antenna engineering fully updated to provide state of the art coverage in antenna design and applications Edited by John L Volakis one of the world's leading authorities in antenna engineering this trusted resource covers all the classic antenna types plus many new types and designs used in communications systems satellites radars and emerging applications from WLAN to automotive systems to

biomedical to smart antennas You will also find expert discussion of topics critical to successful antenna design and engineering such as measurement techniques and computational methods a materials guide wave propagation basics microwave circuits and matching techniques as well as diversity and MIMO propagation models frequency selective surfaces and metamaterials Packed with 1 500 illustrations the 4th Edition of Antenna Engineering Handbook presents Step by step guidance on most antennas modern and classic 59 chapters with 21 new chapters and 38 fully updated chapters from the previous edition Contributions from over 80 well known antenna experts Full color insert illustrating many commercial and military antennas Get Quick Access to All of Today s Cutting Edge Antennas Printed and Conformal Antennas Wideband Patch Antennas Wideband Arrays Leaky Wave Antennas EBG Antennas UWB Antennas and Arrays Portable TV Antennas Reconfigurable Antennas Active Antennas Millimeter Wave and TeraHertz Antennas Fractal Antennas Handset and Terminal Antennas Biomedical Antennas ECM and ESM antennas Dielectric Resonator Antennas Lens Antennas Radiometer Antennas Satellite Antennas Reflector and Earth Station Antennas and Dozens More **IEICE Transactions on Electronics** ,2005
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