

Microwave and Millimeter-Wave Mixers

Edited by
Erik L. Kollberg

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Microwave And Millimeter Wave Mixers

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Microwave And Millimeter Wave Mixers:

Microwave and Millimeter-wave Mixers Erik L. Kollberg, 1984 **A Universal Matching Network for the Evaluation of Microwave and Millimeter Wave Mixers** Daniel Paul Courtney, 1983 *Critical mm-Wave Components for Synthetic Automatic Test Systems* Michael Hrobak, 2015-04-29 Michael Hrobak studied hybrid integrated front end modules for high frequency measurement equipment and especially for synthetic automatic test systems Recent developments of innovative critical millimeter wave components like frequency multipliers directional couplers filters triple balanced mixers and power detectors are illustrated by the author separately and in combination **RFIC and MMIC Design and Technology** I.D. Robertson, S. Lucyszyn, Institution of Electrical Engineers, 2001-11-30 This book gives an in depth account of GaAs InP and SiGe technologies and describes all the key techniques for the design of amplifiers ranging from filters and data converters to image oscillators mixers switches variable attenuators phase shifters integrated antennas and complete monolithic transceivers **Microwave and Millimeter-wave Diode Frequency Multipliers** Marek T. Faber, Jerzy Chramiec, Mirosław E. Adamski, 1995 Written to help scientists engineers and students who want to understand present and potential semiconductor multiplying diodes this book provides both theory and practical design examples It covers the field with a new approach and utilizes the most up to date knowledge and today's computing environment **A study of microwave and millimeter-wave quasi-optical planar mixers** Karl David Stephan, T. Itoh, TEXAS UNIV AT AUSTIN MICROWAVE LAB., 1983 Quasi optical mixers promise to simplify microwave and millimeter wave receiving and remote sensing systems especially where imaging of the field of view is desired Two types of quasi optical mixers were studied both experimentally and theoretically One mixer used a slot ring antenna while the other used a bowtie antenna and an antiparallel diode pair to allow subharmonic local oscillator pumping Both mixers are suitable for monolithic integration at millimeter wavelengths The slot ring antenna is formed by cutting an annular slot in a metallic sheet coated on one side with a dielectric layer If a simple radial electric field distribution in the slot is assumed at the resonant frequency of the first order mode a Hankel transform domain analysis permits prediction of the radiation patterns and radiation resistance of the antenna These predictions were confirmed by measurement An X band balanced mixer model showed a measured conversion loss of 6.5 dB or 3.1 dB when fed by a local oscillator source behind the antenna **Microwave Circuit Design Using Linear and Nonlinear Techniques** George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, Matthias Rudolph, 2021-04-27 Four leaders in the field of microwave circuit design share their newest insights into the latest aspects of the technology The third edition of *Microwave Circuit Design Using Linear and Nonlinear Techniques* delivers an insightful and complete analysis of microwave circuit design from their intrinsic and circuit properties to circuit design techniques for maximizing performance in communication and radar systems This new edition retains what remains relevant from previous editions of this celebrated book and adds brand new content on CMOS technology GaN SiC frequency range and feedback power

amplifiers in the millimeter range region The third edition contains over 200 pages of new material The distinguished engineers academics and authors emphasize the commercial applications in telecommunications and cover all aspects of transistor technology Software tools for design and microwave circuits are included as an accompaniment to the book In addition to information about small and large signal amplifier design and power amplifier design readers will benefit from the book's treatment of a wide variety of topics like An in depth discussion of the foundations of RF and microwave systems including Maxwell's equations applications of the technology analog and digital requirements and elementary definitions A treatment of lumped and distributed elements including a discussion of the parasitic effects on lumped elements Descriptions of active devices including diodes microwave transistors heterojunction bipolar transistors and microwave FET Two port networks including S Parameters from SPICE analysis and the derivation of transducer power gain Perfect for microwave integrated circuit designers the third edition of *Microwave Circuit Design Using Linear and Nonlinear Techniques* also has a place on the bookshelves of electrical engineering researchers and graduate students It's comprehensive take on all aspects of transistors by world renowned experts in the field places this book at the vanguard of microwave circuit design research

Design of Mixers and Modulators for Microwave and Millimeter-wave Application □□□,2007 *Infrared and Millimeter Waves V15* Kenneth J. Button,1986-01-01 *Infrared and Millimeter Waves Volume 15* Millimeter Components and Techniques Part VI is concerned with millimeter wave guided propagation and integrated circuits This book covers low noise receiver technology for near millimeter wavelengths dielectric image line antennas EHF satellite communications SATCOM terminal antennas and semiconductor antennas for millimeter wave integrated circuits A scanning airborne radiometer for 30 and 90 GHz and a self oscillating mixer are also described This monograph is comprised of six chapters and begins with a discussion on the design of low noise receivers with emphasis on problems encountered at near millimeter wavelengths Optimization of the material parameters and device topology for both Schottky barrier diodes and superconducting mixer elements are considered Some representative examples of state of the art mixers and receivers designed to operate at frequencies of 100 1000 GHz are given in order to illustrate the way in which practical high performance millimeter wave devices can be constructed The following chapters focus on a scanning airborne radiometer for 30 and 90 GHz a self oscillating mixer dielectric image line antennas and EHF SATCOM terminal antennas The final chapter is devoted to semiconductor dipole antennas for millimeter wave sensors with particular reference to the basic concepts leading to the development of semiconductor dipoles A theoretical formulation for tubular semiconductor dipoles is outlined and numerical results are presented to assess their characteristics This text will be a valuable resource for physicists and electronics and electrical engineers Millimetre-Wave Optics, Devices and Systems J.C.G Lesurf,2017-10-05 The millimetre wavelength region of the electromagnetic spectrum is increasingly exploited for a wide range of commercial industrial and military applications Conventionally this region is considered as lying above microwaves and below the infrared Hence in practice

millimetre wave scientists have tended to pick and mix useful techniques on an empirical basis from both these areas

Millimetre Wave Optics Devices and Systems describes the fundamental physics of the quasi optical techniques devices and system design for instruments processing millimetre wave signals Relevant ideas from Gaussian beam mode theory and antenna and transmission line theory are brought together to show the underlying unity of optics and electronics Aimed at advanced undergraduates and postgraduates as well as millimetre wave laser optics antenna and microwave engineers this book will also be of interest to manufacturers of millimetre wave and microwave equipment

Semiconductor TeraHertz Technology Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-09-28 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology

The Electrical Engineering Handbook, Second Edition Richard C. Dorf, 1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical chemical material and mathematical data completes this comprehensive

resource Every major topic is thoroughly covered and every important concept is defined described and illustrated Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students A distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field No other single volume available today offers this combination of broad coverage and depth of exploration of the topics The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come *Advances in Broadband Communication and Networks* Johnson I. Agbinya, Oya Sevimli, Sam Reisenfeld, 2022-09-01 Broadband communications has become the major focus for industry for offering rich multimedia IP services in next generation networks This book deals with the state of the art and the underlying principles of key technologies which facilitate broadband telecommunications including millimetre wave gigabit Ethernet terahertz communication multiple input multiple output MIMO technology orthogonal frequency division multiplex OFDM ultra wideband UWB and the fourth generation 4G network technologies The book illustrates the use of these technologies including high resolution three dimensional millimetre wave radar imaging and terahertz imaging techniques Within the next few years advances in graphic rendering and the application of millimetre wave radar technology will enable high resolution radar surveillance and operators of industrial processes to control their machines and to navigate remotely even in poor visibility environments The principles and performance of terahertz imaging are also demonstrated in this important book The performance and success of emerging all IP networks depend largely on the efficiency of broadband technologies and this book provides the basis for 4G networks and explores key performance measures such as quality of service and handover between distributed networks mobile and fixed The book also demonstrates the medical and biomedical applications of broadband wireless communications

Metal-Semiconductor Schottky Barrier Junctions and Their Applications B.L. Sharma, 2013-11-11 The present day semiconductor technology would be inconceivable without extensive use of Schottky barrier junctions In spite of an excellent book by Professor E H Rhoderick 1978 dealing with the basic principles of metal semiconductor contacts and a few recent review articles the need for a monograph on Metal Semiconductor Schottky Barrier Junctions and Their Applications has long been felt by students researchers and technologists It was in this context that the idea of publishing such a monograph by Mr Ellis H Rosenberg Senior Editor Plenum Publishing Corporation was considered very timely Due to the numerous and varied applications of Schottky barrier junctions the task of bringing it out however looked difficult in the beginning After discussions at various levels it was deemed appropriate to include only those typical applications which were extremely rich in R D and still posed many challenges so that it could be brought out in the stipulated time frame Keeping in view the larger interest it was also considered necessary to have the different topics of Schottky barrier junctions written by experts

Terahertz Sensing Technology - Vol 1: Electronic Devices And Advanced Systems Technology Michael S

Shur, Dwight L Woolard, William R Loerop, 2003-07-14 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas

Microwave Receivers with Electronic Warfare Applications James Tsui, 1986-09-02 Provides a comprehensive introduction to microwave receivers stressing both the general characteristics of microwave devices and the uses of particular systems Covers receiver definition and performance and discusses the important area of receiver systems Emphasizes the necessity of designing microwave receiver systems to receive hostile communications during electronic warfare Material has been collected from technical articles specialists in the field and the author's own experience Written at a level appropriate for advanced undergraduates and first year graduate students

Terahertz Sensing Technology William R. Loerop, 2003 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas

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1989 National Science Foundation Authorization United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Science, Research, and Technology, 1988

Oversight of the National Science Foundation United States. Congress. House. Committee on Science, Space, and Technology, 1989

Engineering Superconductivity Peter J. Lee, 2001-05-02 Comprehensive coverage of superconductivity from the Wiley Encyclopedia of Electrical and Electronics Engineering Engineering Superconductivity features fifty articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the one truly indispensable reference for electrical engineers Superconductor technology has made highly advanced experiments

possible in chemistry biochemistry particle physics and health sciences and introduced new applications currently in use in fields from medicine to cellular communications Taken together these articles written by acknowledged experts in the field provide the most complete and in depth accounting of superconductivity in existence The book brings together a wealth of information that would not be available to those who do not have access to the full 24 volume encyclopedia This thorough survey looks at the application of superconductors from an engineer s practical perspective rather than a theoretical approach Engineering Superconductivity provides full coverage of the fundamentals of superconducting behavior and explains the properties and fabrication methods of commercially produced superconductors Up to date material on superconductor applications as well as competing technologies is included The fifty articles presented here are divided into three sections Superconductivity and magnetism Superconductors Applications and related technology Engineering Superconductivity is a complete and up to date reference for engineers physicists chemists materials scientists and anyone working with superconductors

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