

COMPUTER- AIDED DESIGN OF MICROWAVE CIRCUITS

An abstract graphic consisting of several parallel lines. On the left, there are three horizontal lines. These lines transition into a series of lines that fan out and curve upwards towards the right, creating a sense of motion or a stylized 'S' shape. The lines are dark blue or black against a light beige background.

K.C. Gupta
Ramesh Garg
Rakesh Chadha

Microwave Integrated Circuits Kc Gupta

K. C. Gupta, Kuldip C. Gupta



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Microwave Integrated Circuits K. C. Gupta, Kuldeep C. Gupta, 1974 **Microwaves** Kenny Abdo, 2023-12-15 This title focuses on the accidental discovery of microwaves and details their origins evolution throughout the years and impact they have had on the world This hi lo title is complete with vibrant photographs simple text glossary and an index Aligned to Common Core Standards and correlated to state standards Fly is an imprint of Abdo Zoom a division of ABDO

Microwave Integrated Circuits Kuldeep C. Gupta, Amarjit Singh, 1974 Stripline-like Transmission Lines for Microwave Integrated Circuits Bharathi Bhat, Shibani K. Koul, 1989 Stripline Like Transmission Lines For Microwave Integrated Circuits Offers A Unique Combination Of A Textbook And A Design Data Handbook It Provides An Exhaustive Coverage Of The Analysis Design And Applications Of Stripline Like Transmission Lines Starting From The Fundamental Principles The Book Builds Up On Analytical Techniques Towards The Solution Of Various Structures In A Lucid And Systematic Manner So As To Be Of Direct Utility For Classroom Teaching Both Quasi Static And Hybrid Mode Analyses Are Included A Unified Analytical Technique Is Developed Which Is Then Applied To A Class Of Single Conductor Edge Coupled And broadside Coupled Structures Using Isotropic Anisotropic Substrates The Same Technique Is Extended To Analyse Rectangular Conductor Patches Open Circuit End Effects And Gap Capacitances In These Structures The Analyses Of Losses And Details Of Power Handling Capability Are Also Presented For R D Engineers Involved In Mic Design The Book Offers Unified Formulas And Closed Form Expressions Which Are Readily Programmable Graphical Illustrations And Extensive Tables Of Data On Propagation Parameters For A Wide Variety Of Practical Structures Using Commercially Available Dielectric Substrates The Book Concludes With A Chapter On Circuit Applications Which Discusses The Constructional Features Transitions To Coaxial Lines And Waveguides And Design Aspects Of A Member Of Mic Components Couplers Hybrids Baluns Power Dividers Filters Pin Diode Switches Attenuators And Phase Shifters And Mixers **Lumped Elements for RF and Microwave Circuits, Second Edition** Inder J. Bahl, 2022-12-31 Fully updated and including entirely new chapters this Second Edition provides in depth coverage of the different types of RF and microwave circuit elements including inductors capacitors resistors transformers via holes airbridges and crossovers Featuring extensive formulas for lumped elements design trade offs and an updated and current list of references the book helps you understand the value and usefulness of lumped elements in the design of RF microwave and millimeter wave components and circuits You ll find a balanced treatment between standalone lumped elements and their circuits using MICs MMICs and RFICs technologies You ll also find detailed information on a broader range RFICs that was not available when the popular first edition was published The book captures in one consolidated volume the fundamentals equations modeling examples references and overall procedures to design test and produce microwave components that are indispensable in industry and academia today With its superb organization and expanded coverage of the subject this is a must have go to resource for practicing engineers and

researchers in industry government and university and microwave engineers working in the antenna area Students will also find it a useful reference with its clear explanations many examples and practical modeling guidelines *Computer-aided Design of Microwave Circuits* K. C. Gupta, Ramesh Garg, Rakesh Chadha, 1981 *Microwave Circuit Design Using Linear and Nonlinear Techniques* George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, 2005-10-03 The ultimate handbook on microwave circuit design with CAD Full of tips and insights from seasoned industry veterans Microwave Circuit Design offers practical proven advice on improving the design quality of microwave passive and active circuits while cutting costs and time Covering all levels of microwave circuit design from the elementary to the very advanced the book systematically presents computer aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers oscillators and mixers Using the newest CAD tools the book shows how to design transistor and diode circuits and also details CAD's usefulness in microwave integrated circuit MIC and monolithic microwave integrated circuit MMIC technology Applications of nonlinear SPICE programs now available for microwave CAD are described State of the art coverage includes microwave transistors HEMTs MODFETs MESFETs HBTs and more high power amplifier design oscillator design including feedback topologies phase noise and examples and more The techniques presented are illustrated with several MMIC designs including a wideband amplifier a low noise amplifier and an MMIC mixer This unique one stop handbook also features a major case study of an actual anticollision radar transceiver which is compared in detail against CAD predictions examples of actual circuit designs with photographs of completed circuits and tables of design formulae Microwave Integrated Circuits Konishi, 1991-03-29 Presents to a wide range of students and engineers up to date techniques of MICs with readily comprehensible explanations providing a unified description of MICs clarifying physical content including sufficient data to be directly useful to active engineers and providing a path of entry into the *Microwave Integrated Circuits* Jeffrey Frey, K. B. Bhasin, 1985 *Microwave Integrated Circuit Components Design through MATLAB®* S Raghavan, 2019-11-11 MICROWAVE INTEGRATED CIRCUIT COMPONENTS DESIGN THROUGH MATLAB This book teaches the student community microwave integrated circuit component design through MATLAB helping the reader to become conversant in using codes and thereafter commercial software for verification purposes only Microwave circuit theory and its comparisons transmission line networks S parameters ABCD parameters basic design parameters of planar transmission lines striplines microstrips slot lines coplanar waveguides finlines filter theory Smith chart inverted Smith chart stability circles noise figure circles and microwave components are thoroughly explained in the book The chapters are planned in such a way that readers get a thorough understanding to ensure expertise in design Aimed at senior undergraduates graduates and researchers in electrical engineering electromagnetics microwave circuit design and communications engineering this book Explains basic tools for design and analysis of microwave circuits such as the Smith chart and network parameters Gives the advantage of realizing the output without wiring the circuit by simulating through MATLAB code Compares distributed theory with

network theory Includes microwave components filters and amplifiers S Raghavan was a Senior Professor HAG in the Department of Electronics and Communication Engineering National Institute of Technology NIT Trichy India and has 39 years of teaching and research experience at the Institute His interests include microwave integrated circuits RF MEMS Bio MEMS metamaterial frequency selective surfaces FSS substrate integrated waveguides SIW biomedical engineering and microwave engineering He has established state of the art MICs and microwave research laboratories at NIT Trichy with funding from the Indian government He is a Fellow Senior Member in more than 24 professional societies including IEEE MTT EMBS APS IETE IEI CSI TSI ISSS ILA and ISOI He is twice a recipient of the Best Teacher Award and has received the Life Time Achievement Award Distinguished Professor of Microwave Integrated Circuit Award and Best Researcher Award

Smart Antennas T. K. Sarkar, Michael C. Wicks, Magdalena Salazar-Palma, Robert J. Bonneau, 2005-02-18 A valuable addition to the Wiley Series in Microwave and Optical Engineering Today's modern wireless mobile communications depend on adaptive smart antennas to provide maximum range and clarity With the recent explosive growth of wireless applications smart antenna technology has achieved widespread commercial and military applications The only book available on the topic of adaptive antennas using digital technology this text reflects the latest developments in smart antenna technology and offers timely information on fundamentals as well as new adaptive techniques developed by the authors Coupling electromagnetic aspects of antenna design with signal processing techniques designed to promote accurate and efficient information exchange the text presents various mechanisms for characterizing signal path loss associated with signal propagation particularly for mobile wireless communications systems based on such techniques as joint space frequency adaptive processing In clear accessible language the authors explain the difference between adaptive antennas and adaptive signal processing Illustrate the procedures for adaptive processing using directive elements in a conformal array clarify multistage analysis procedure which combines electromagnetic analysis with signal processing present a survey of the various models for characterizing radio wave propagation in urban and rural environments describe a method wherein it is possible to identify and eliminate multipath without spatial diversity optimize the location of base stations in a complex environment The text is an excellent resource for researchers and engineers working in electromagnetics and signal processing who deal with performance improvement of adaptive techniques as well as those who are concerned with the characterization of propagation channels and applications of airborne phased arrays

Microwave Circuit Modeling Using Electromagnetic Field Simulation Daniel G. Swanson, Wolfgang J. R. Hoefer, 2003 Annotation This practical how to book is an ideal introduction to electromagnetic field solvers Where most books in this area are strictly theoretical this unique resource provides engineers with helpful advice on selecting the right tools for their RF radio frequency and high speed digital circuit design work

Nuclear Electronics Vladimir Polushkin, 2004-11-19 With the commercialisation of superconducting particles and radiation detectors set to occur in the very near future nuclear analytical instrumentation is

taking a big step forward These new detectors have a high degree of accuracy stability and speed and are suitable for high density multiplex integration in nuclear research laboratories and astrophysics Furthermore superconducting detectors can also be successfully applied to food safety airport security systems medical examinations doping tests forensic investigations This book is the first to address a new generation of analytical tools based on new superconductor detectors demonstrating outstanding performance unsurpassed by any other conventional devices Presenting the latest research and development in nanometer technologies and biochemistry this book Discusses the development of nuclear sensing techniques Provides guidance on the design and use of the next generation of detectors Describes cryogenic detectors for nuclear measurements and spectrometry Covers primary detectors front end readout electronics and digital signal processing Presents applications in nanotechnology and modern biochemistry including DNA sequencing proteomics microorganisms Features examples of two applications in X ray electron probe nanoanalysis and time of flight mass spectrometry This comprehensive treatment is the ideal reference for researchers industrial engineers and graduate students involved in the development of high precision nuclear measurements nuclear analytical instrumentation and advanced superconductor primary sensors This book will also appeal to physicists electrical and electronic engineers in the nuclear industry *Microstrip Lines and Slotlines, Fourth Edition* Ramesh Garg, Inder J. Bahl, 2024-10-31 *Microstrip Lines and Slotlines Fourth Edition* is an indispensable resource for practicing engineers This edition is updated to reflect the latest developments in the field providing extensive analysis techniques and CAD design and modeling information This volume covers approximate and full wave analysis techniques accurate circuit model extraction and design information focusing on miniaturization broadband operation and precise design It also incorporates the most recent information from conferences journals books and personal research New topics on Metamaterial Based Transmission Lines and Numerical Simulation and Modeling of transmission lines are introduced aligning with the book's core themes Some of the key updates included in this fourth edition are the integration of significant materials significant revisions reflecting the latest research and the introduction of cutting edge topics enhancing the existing content With these comprehensive updates *Microstrip Lines and Slotlines Fourth Edition* ensures that readers have access to the most relevant and cutting edge information in the field of printed transmission lines This book is a must have for professionals and researchers dedicated to advancing their knowledge and expertise in this dynamic area *Compact Multifunctional Antennas for Wireless Systems* Eng Hock Lim, Kwok Wa Leung, 2012-04-17 Offers an up to date description of modern multifunctional antenna systems and microwave components Compact multifunctional antennas are of great interest in the field of antennas and wireless communication systems but there are few if any books available that fully explore the multifunctional concept Divided into six chapters *Compact Multifunctional Antennas for Wireless Systems* encompasses both the active and passive multifunctional antennas and components for microwave systems It provides a systematic valuable reference for antenna microwave researchers and designers Beginning with such novel passive components as antenna

filters antenna packaging covers and balun filters the book discusses various miniaturization techniques for the multifunctional antenna systems In addition to amplifying and oscillating antennas the book also covers design considerations for frequency and pattern reconfigurable antennas The last chapter is dedicated to the field of solar cell integrated antennas Inside readers will find comprehensive chapters on Compact Multifunctional Antennas in Microwave Wireless Systems Multifunctional Passive Integrated Antennas and Components Reconfigurable Antennas Receiving Amplifying Antennas Oscillating Antennas Solar cell integrated Antennas Aimed at professional engineers and researchers designing compact antennas for wireless applications Compact Multifunctional Antennas for Wireless Systems will prove to be an invaluable tool **Electromagnetic Simulation Techniques Based on the FDTD Method** W. Yu, 2009-09-15

Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF antenna and microwave engineering **Thin Film Device Applications** Kasturi Chopra, 2012-12-06

Two dimensional materials created ab initio by the process of condensation of atoms molecules or ions called thin films have unique properties significantly different from the corresponding bulk materials as a result of their physical dimensions geometry nonequilibrium microstructure and metallurgy Further these characteristic features of thin films can be drastically modified and tailored to obtain the desired and required physical characteristics These features form the basis of development of a host of extraordinary active and passive thin film device applications in the last two decades On the one extreme these applications are in the submicron dimensions in such areas as very large scale integration VLSI Josephson junction quantum interference devices magnetic bubbles and integrated optics On the other extreme large area thin films are being used as selective coatings for solar thermal conversion solar cells for photovoltaic conversion and protection and

passivating layers Indeed one would be hard pressed to find many sophisticated modern optical and electronic devices which do not use thin films in one way or the other With the impetus provided by industrial applications the science and technology of thin films have undergone revolutionary development and even today continue to be recognized globally as frontier areas of RID work Major technical developments in any field of science and technology are invariably accompanied by an explosion of published literature in the form of scientific publications reviews and books

Theory of Waveguides and Transmission Lines Edward F. Kuester, 2020-09-19 This book covers the principles of operation of electromagnetic waveguides and transmission lines The approach is divided between mathematical descriptions of basic behaviors and treatment of specific types of waveguide structures Classical distributed network transmission lines their basic properties their connection to lumped element networks and the distortion of pulses are discussed followed by a full field analysis of waveguide modes Modes of specific kinds of waveguides traditional hollow metallic waveguides dielectric including optical waveguides etc are discussed Problems of excitation and scattering of waveguide modes are addressed followed by discussion of real systems and performance

Radio-Frequency Integrated-Circuit Engineering Cam Nguyen, 2015-03-16 Radio Frequency Integrated Circuit Engineering addresses the theory analysis and design of passive and active RFIC s using Si based CMOS and Bi CMOS technologies and other non silicon based technologies The materials covered are self contained and presented in such detail that allows readers with only undergraduate electrical engineering knowledge in EM RF and circuits to understand and design RFICs Organized into sixteen chapters blending analog and microwave engineering Radio Frequency Integrated Circuit Engineering emphasizes the microwave engineering approach for RFICs Provides essential knowledge in EM and microwave engineering passive and active RFICs RFIC analysis and design techniques and RF systems vital for RFIC students and engineers Blends analog and microwave engineering approaches for RFIC design at high frequencies Includes problems at the end of each chapter

Components and Devices T. Koryu Ishii, 2013-10-22 Handbook of Microwave Technology Volume I Components and Devices is a compact reference tool which provides both the fundamentals and applications of microwave technology This volume covers components and devices used in microwave circuits Chapters in the book discuss topics on microwave transmission lines microwave resonators and microstrip line components Microwave impedance matching techniques applications of microwave thermionic density modulated devices and microwave transistor oscillators and amplifiers are tackled as well Technicians scientists engineers and science and engineering students who are involved in microwave technology will find the text very useful

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