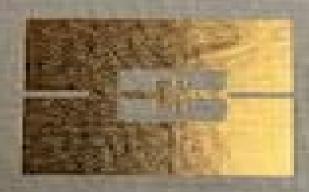


Martin Hasler and Jacques Neirynck



Nonlinear Circuits Artech House Microwave Library

Bal S. Virdee, Avtar S. Virdee, Ben Y. Banyamin

Nonlinear Circuits Artech House Microwave Library:

Nonlinear Microwave and RF Circuits Stephen A. Maas, 2003 This newly and thoroughly revised edition of the 1988 Artech House classic offers you a comprehensive up to date treatment of nonlinear microwave and RF circuits It gives you a current in depth understanding of the theory of nonlinear circuit analysis with a focus on Volterra series and harmonic balance methods You get practical guidance in designing nonlinear circuits and modeling solid state devices for nonlinear circuit analysis by computer Moreover you learn how characteristics of such models affect the analysis of these circuits Critical new topics include microwave heterojunction bipolar transistors HBTs heterojunction FETs HEMTs silicon MOSFETs modern IC design approaches new methods of harmonic balance analysis multitone analysis methods Fourier methods for multitone problems and artificial frequency mapping What's more the second edition has been updated to include discussions on nonlinear analysis of oscillators and design issues relating to RF and wireless technology More than 120 illustrations Microwave Circuit Design Using Linear and Nonlinear Techniques George support key topics throughout the book 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 Stability Analysis of Nonlinear Microwave Circuits Almudena Suárez, Raymond Quéré, 2003 Annotation Stability Analysis of Nonlinear Microwave Circuits is essential

reading for microwave designers working with circuits based on solid state devices diodes and transistors engineers designing radio frequency circuits and professionals regularly involved in any area requiring a functional knowledge of nonlinear oscillations and stability concepts It provides an in depth look at the very complex and often unforeseen behavior of nonlinear circuits The book includes detailed coverage of power amplifiers voltage controlled oscillators frequency dividers frequency multipliers self oscillating mixers and phased locked loops BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Nonlinear Circuits Martin Hasler, Jacques Neirynck, 1986 Volterra Approach to Digital Predistortion Carlos Crespo Cadenas, Maria Jose Madero Ayora, Juan A. Becerra, 2025-01-15 Thorough discussion of the theory and application of the Volterra series for impairments compensation in RF circuits and systems A Volterra Approach to Digital Predistortion Sparse Identification and Estimation offers a comprehensive treatment of the Volterra series approach as a practical tool for the behavioral modeling and linearization of nonlinear wireless communication systems Although several perspectives can be considered when analyzing nonlinear effects this book focuses on the Volterra series to study systems with real valued continuous time RF signals as well as complex valued discrete time baseband signals in the digital signal processing field A unified framework provides the reader with in depth understanding of the available Volterra based behavioral models in particular the book emphasizes those models derived by exploiting the knowledge of the physical phenomena that produce different types of nonlinear distortion From these distinctive standpoints this work remarkably contributes to theoretical issues of behavioral modeling. The book contributes to practical state of the art questions on linearization granting the reader practical guidance in designing digital predistortion schemes and adopting up to date machine learning methods to exploit the sparsity of the identification problem and reducing computational complexity Later chapters include information on Identification of Volterra based models as a linear regression problem allowing the adoption of sparse machine learning methods to reduce computational complexity while keeping rich model structures Deduction of Volterra models based on circuit model knowledge offering pruned model structures that are better fitted for specific scenarios Wireless communication systems and the nonlinear effects produced by power amplifiers mixers frequency converters or IQ modulators Digital predistortion schemes and experimental results for both indirect and direct learning architectures A Volterra Approach to Digital Predistortion Sparse Identification and Estimation is an essential reference on the subject for engineers and technicians who develop new products for the linearization of wireless transmitters as well as researchers and students in fields and programs of study related to wireless communications

Stability Analysis of Nonlinear Microwave Circuits Almudena Suárez, Raymond Quéré, 2003 The book includes detailed coverage of power amplifiers voltage controlled oscillators frequency dividers frequency multipliers self oscillating mixers and phased locked loops BOOK JACKET Computer-aided Analysis of Nonlinear Microwave Circuits Paulo J. C. Rodrigues, 1998 This comprehensive new book helps fortify your understanding of the most popular time and frequency

domain techniques used to analyze nonlinear microwave circuits and shows you how to get better performance from these techniques using circuit analysis software Intermodulation Distortion in Microwave and Wireless Circuits José Carlos Pedro, Nuno Borges Carvalho, 2003 In today s fast changing competitive environment having an up to date information system IS is critical for all companies and institutions Rather than creating a new system from scratch reengineering is an economical way to develop an IS to match changing business needs Using detailed examples this practical book gives you methods and techniques for reengineering systems for flexibility and reliability It helps you reengineer a system to continue to provide for business critical missions as well as achieve a smooth transformation to an up to date software technology environment What's more it shows you how to redevelop a flexible system that can evolve to meet future business objectives reduce start time and save money in the reengineering process Modulated Measurement and Engineering Systems for Microwave Power Transistors Muhammad Akmal Chaudhary, 2019-06-15 The complexity requirements of future wireless communication systems now indeed demand a more general theoretically robust design methodology for nonlinear circuits such as the power amplifiers The present design methodology for nonlinear Radio Frequency components and circuits has become a key hindrance in the evaluation development and testing of modern communication systems. The fundamental nature of this engineering challenge makes it highly unlikely to be addressed within the competitive Radio Frequency industry with short term profitability time to market and risk aversion considerations. The book therefore includes developing advanced waveform measurement setups multi tone measurement techniques characterization and modelling of nonlinear distortion in microwave power transistors and design of high power and spectrum efficient RF power amplifiers for future wireless communication systems Further enlists the key impediments in Power Amplifier design through the application of waveform engineering to embrace simultaneously efficiency and linearity objectives of power amplifier design as well as investigate the most robust and appropriate behavioral model formulation that includes memory effects 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

<u>Lumped Elements for RF and Microwave Circuits, Second Edition</u> 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 Microwave Active Circuit Analysis and Design Clive Poole, Izzat Darwazeh, 2015-11-03 This book teaches the skills and knowledge required by today s RF and microwave engineer in a concise structured and systematic way Reflecting modern developments in the field this book focuses on active circuit design covering the latest devices and design techniques From electromagnetic and transmission line theory and S parameters through to amplifier and oscillator design techniques for low noise and broadband design This book focuses on analysis and design including up to date material on MMIC design techniques With this book you will Learn the basics of RF and microwave circuit analysis and design with an emphasis on active circuits and become familiar with the operating principles of the most common active system building blocks such as amplifiers oscillators and mixers Be able to design transistor based amplifiers oscillators and mixers by means of basic design methodologies Be able to apply established graphical design tools such as the Smith chart and feedback mappings to the design RF and microwave active circuits Acquire a set of basic design skills and useful tools that can be employed without recourse to complex computer aided design Structured in the form of modular chapters each covering a specific topic in a concise form suitable for delivery in a single lecture Emphasis on clear explanation and a step by step approach that aims to help students to easily grasp complex concepts Contains tutorial questions and problems allowing readers to test their knowledge An accompanying website containing supporting material in the form of slides and software MATLAB listings Unique material on negative resistance oscillator design noise analysis and three port design techniques Covers the latest developments in microwave active circuit design with new approaches that are not covered elsewhere RF and Microwave Oscillator Design Micha Odyniec, 2002 This groundbreaking book is the first to present the state of the art in microwave oscillator design with an emphasis on new nonlinear methods A compilation of pioneering work from experts in the field it also provides rigorous theory and historical background Invaluable for professionals at all levels of design expertise this volume helps you to bridge the gap between design practice and new powerful design methods learn all aspects of modern oscillator design and review practical designs and experimental results of fixed frequency high Q low noise oscillators Microwave RF Antennas and Circuits Ofer Aluf, 2016-12-01 This book describes a new concept for analyzing RF microwave circuits which includes RF microwave antennas The book is unique in its emphasis on practical and innovative microwave RF engineering applications The analysis is based on nonlinear dynamics and chaos models and shows comprehensive benefits and results All conceptual RF microwave circuits and antennas are

innovative and can be broadly implemented in engineering applications Given the dynamics of RF microwave circuits and antennas they are suitable for use in a broad range of applications The book presents analytical methods for microwave RF antennas and circuit analysis concrete examples and geometric examples. The analysis is developed systematically starting with basic differential equations and their bifurcations and subsequently moving on to fixed point analysis limit cycles and their bifurcations Engineering applications include microwave RF circuits and antennas in a variety of topological structures RFID ICs and antennas microstrips circulators cylindrical RF network antennas Tunnel Diodes TDs bipolar transistors field effect transistors FETs IMPATT amplifiers Small Signal SS amplifiers Bias T circuits PIN diode circuits power amplifiers oscillators resonators filters N turn antennas dual spiral coil antennas helix antennas linear dipole and slot arrays and hybrid translinear circuits In each chapter the concept is developed from the basic assumptions up to the final engineering outcomes The scientific background is explained at basic and advanced levels and closely integrated with mathematical theory The book also includes a wealth of examples making it ideal for intermediate graduate level studies It is aimed at electrical and electronic engineers RF and microwave engineers students and researchers in physics and will also greatly benefit all engineers who have had no formal instruction in nonlinear dynamics but who now desire to bridge the gap between innovative microwave RF circuits and antennas and advanced mathematical analysis methods Nonlinear Circuit Simulation and Modeling José Carlos Pedro, David E. Root, Jianjun Xu, Luís Cótimos Nunes, 2018-06-14 Discover the nonlinear methods and tools needed to design real world microwave circuits with this tutorial guide Balancing theoretical background with practical tools and applications it covers everything from the basic properties of nonlinear systems such as gain compression intermodulation and harmonic distortion to nonlinear circuit analysis and simulation algorithms and state of the art equivalent circuit and behavioral modeling techniques Model formulations discussed in detail include time domain transistor compact models and frequency domain linear and nonlinear scattering models Learn how to apply these tools to designing real circuits with the help of a power amplifier design example which covers all stages from active device model extraction and the selection of bias and terminations through to performance verification Realistic examples illustrative insights and clearly conveyed mathematical formalism make this an essential learning aid for both professionals working in microwave and RF engineering and graduate students looking for a hands on guide to microwave circuit design

Nonlinear Design: FETs and HEMTs Peter H. Ladbrooke,2021-11-30 Despite its continuing popularity the so called standard circuit model of compound semiconductor field effect transistors FETs and high electron mobility transistors HEMTs is shown to have a limitation for nonlinear analysis and design it is valid only in the static limit When the voltages and currents are time varying as they must be for these devices to have any practical use the model progressively fails for higher specification circuits This book shows how to reform the standard model to render it fully compliant with the way FETs and HEMTs actually function thus rendering it valid dynamically Proof of principle is demonstrated for several practical circuits

including a frequency doubler and amplifiers with demanding performance criteria Methods for extracting both the reformulated model and the standard model are described including a scheme for re constructing from S parameters the bias dependent dynamic or RF I V characteristics along which devices work in real world applications and as needed for the design of nonlinear circuits using harmonic balance and time domain simulators The book includes a historical review of how variations on the standard model theme evolved leading up to one of the most widely used the Angelov or Chalmers model

Nonlinear Microwave Circuits Stephen A. Maas, 1997 This classic text is an excellent resource and time saver for engineers who need to tackle troublesome nonlinear components that remain in use despite recent advances in microwave technology NONLINEAR MICROWAVE CIRCUITS offers detailed technically substantial coverage of key methods for the analysis design and optimization of nonlinear microwave circuits Using minimal mathematics it integrates in depth readable coverage of the underlying theories that guide these methods This book is replete with valuable how to information on a wide range of topics Parameter Extraction and Complex Nonlinear Transistor Models Gunter Kompa, 2019-12-31 All model parameters are fundamentally coupled together so that directly measured individual parameters although widely used and accepted may initially only serve as good estimates This comprehensive resource presents all aspects concerning the modeling of semiconductor field effect device parameters based on gallium arsenide GaAs and gallium nitride GaN technology Metal semiconductor field effect transistors MESFETs high electron mobility transistors HEMTs and heterojunction bipolar transistors HBTs their structures and functions and existing transistor models are also classified The Shockley model is presented in order to give insight into semiconductor field effect transistor FET device physics and explain the relationship between geometric and material parameters and device performance Extraction of trapping and thermal time constants is discussed A special section is devoted to standard nonlinear FET models applied to large signal measurements including static pulsed DC and single two tone stimulation High power measurement setups for signal waveform measurement wideband source load pull measurement including envelope source load pull are also included along with high power intermodulation distortion IMD measurement setup including envelope load pull Written by a world renowned expert in the field this book is the first to cover of all aspects of semiconductor FET device modeling in a single Practical RF Circuit Design for Modern Wireless Systems Rowan Gilmore, Les Besser, 2003 A practical approach volume to RF circuit design this volume covers nonlinear circuits and modelling RF transistor amplifiers oscillators and mixers

Broadband Microwave Amplifiers Bal S. Virdee, Avtar S. Virdee, Ben Y. Banyamin, 2004 This authoritative resource offers a complete understanding of state of the art and cutting edge techniques for designing and fabricating broadband microwave amplifiers. The book covers the complete design cycle detailing each stage in a practical hands on manner. This comprehensive reference illustrates the formulation of small and large signal device models to help professionals accurately simulate amplifier performance and covers all the practical aspects and circuit components used in fabrication Engineers

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