

Advanced Techniques in RF Power Amplifier Design

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Zhancang Wang



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Advanced Design Techniques for RF Power Amplifiers Anna N. Rudiakova, Vladimir Krizhanovski, 2006-09-09 Advanced Design Techniques for RF Power Amplifiers main aim is to provide the reader with a deep analysis of theoretical aspects modelling and design strategies of RF high efficiency power amplifiers Advanced Design Techniques for RF Power Amplifiers begins with an analytical review of current state of the problem Then it moves to the theoretical analysis of BJT class F power amplifier near transition frequency and presents the necessary realization conditions The next part concerns the practical verification and demonstration of the theoretical results It is followed by the part devoted to the output networks of high efficiency power amplifiers The novel type of photonic band gap structure providing improved characteristics both in the pass and stop bands is proposed Finally the fifth harmonic peaking class F power amplifier design based on the above structure is presented

Modeling and Design Techniques for RF Power Amplifiers Arvind Raghavan, Nuttapong Srirattana, Joy Laskar, 2008-01-09 Achieve higher levels of performance integration compactness and cost effectiveness in the design and modeling of radio frequency RF power amplifiers RF power amplifiers are important components of any wireless transmitter but are often the limiting factors in achieving better performance and lower cost in a wireless communication system presenting the RF IC design community with many challenges The next generation technological advances presented in this book are the result of cutting edge research in the area of large signal device modeling and RF power amplifier design at the Georgia Institute of Technology and have the potential to significantly address issues of performance and cost effectiveness in this area Richly complemented with hundreds of figures and equations Modeling and Design Techniques for RF Power Amplifiers introduces and explores the most important topics related to RF power amplifier design under one concise cover With a focus on efficiency enhancement techniques and the latest advances in the field coverage includes Device modeling for CAD Empirical modeling of bipolar devices Scalable modeling of RF MOSFETs Power amplifier IC design Power amplifier design in silicon Efficiency enhancement of RF power

amplifiers The description of state of the art techniques makes this book a valuable and handy reference for practicing engineers and researchers while the breadth of coverage makes it an ideal text for graduate and advanced undergraduate level courses in the area of RF power amplifier design and modeling

High Efficiency RF and Microwave Solid State Power Amplifiers Paolo Colantonio, Franco Giannini, Ernesto Limiti, 2009-07-08 Do you want to know how to design high efficiency RF and microwave solid state power amplifiers Read this book to learn the main concepts that are fundamental for optimum amplifier design Practical design techniques are set out stating the pros and cons for each method presented in this text In addition to novel theoretical discussion and workable guidelines you will find helpful running examples and case studies that demonstrate the key issues involved in power amplifier PA design flow Highlights include Clarification of topics which are often misunderstood and misused such as bias classes and PA nomenclatures The consideration of both hybrid and monolithic microwave integrated circuits MMICs Discussions of switch mode and current mode PA design approaches and an explanation of the differences Coverage of the linearity issue in PA design at circuit level with advice on low distortion power stages Analysis of the hot topic of Doherty amplifier design plus a description of advanced techniques based on multi way and multi stage architecture solutions High Efficiency RF and Microwave Solid State Power Amplifiers is an ideal tutorial for MSc and postgraduate students taking courses in microwave electronics and solid state circuit device design a useful reference text for practising electronic engineers and researchers in the field of PA design and microwave and RF engineering With its unique unified vision of solid state amplifiers you won t find a more comprehensive publication on the topic

High-speed Circuit Board Signal Integrity Stephen C. Thierauf, 2004 This leading edge circuit design resource offers the knowledge needed to quickly pinpoint transmission problems that can compromise circuit design Discusses both design and debug issues at gigabit per second data rates

Nonlinear Modeling Analysis and Predistortion Algorithm Research of Radio Frequency Power Amplifiers Jingchang Nan, Mingming Gao, 2021-07-29 This book is a summary of a series of achievements made by the authors and colleagues in the areas of radio frequency power amplifier modeling including neural Volterra series modeling neural network modeling X parameter modeling nonlinear analysis methods and power amplifier predistortion technology over the past 10 years The book is organized into ten chapters which respectively describe an overview of research of power amplifier behavioral models and predistortion technology nonlinear characteristics of power amplifiers power amplifier behavioral models and the basis of nonlinear analysis an overview of power amplifier predistortion Volterra series modeling of power amplifiers power amplifier modeling based on neural networks power amplifier modeling with X parameters the modeling of other power amplifiers nonlinear circuit analysis methods and predistortion algorithms and applications Blending theory with analysis this book will provide researchers and RF microwave engineering students with a valuable resource

Load-Pull Techniques with Applications to Power Amplifier Design Fadhel M. Ghannouchi, Mohammad S. Hashmi, 2012-06-06 This first book on load pull systems is intended for readers with a broad

knowledge of high frequency transistor device characterization nonlinear and linear microwave measurements RF power amplifiers and transmitters Load Pull Techniques with Applications to Power Amplifier Design fulfills the demands of users designers and researchers both from industry and academia who have felt the need of a book on this topic It presents a comprehensive reference spanning different load pull measurement systems waveform measurement and engineering systems and associated calibration procedures for accurate large signal characterization Besides this book also provides in depth practical considerations required in the realization and usage of load pull and waveform engineering systems In addition it also provides procedure to design application specific load pull setup and includes several case studies where the user can customize architecture of load pull setups to meet any specific measurement requirements Furthermore the materials covered in this book can be part of a full semester graduate course on microwave device characterization and power amplifier design

Advances in Nonlinear Signal and Image Processing Stephen Marshall, Giovanni L. Sicuranza, 2006

Wireless Technologies Krzysztof Iniewski, 2017-12-19 Advanced concepts for wireless technologies present a vision of technology that is embedded in our surroundings and practically invisible From established radio techniques like GSM 802 11 or Bluetooth to more emerging technologies such as Ultra Wide Band and smart dust motes a common denominator for future progress is the underlying integrated circuit technology Wireless Technologies responds to the explosive growth of standard cellular radios and radically different wireless applications by presenting new architectural and circuit solutions engineers can use to solve modern design problems This reference addresses state of the art CMOS design in the context of emerging wireless applications including 3G 4G cellular telephony wireless sensor networks and wireless medical application Written by top international experts specializing in both the IC industry and academia this carefully edited work uncovers new design opportunities in body area networks medical implants satellite communications automobile radar detection and wearable electronics The book is divided into three sections wireless system perspectives chip architecture and implementation issues and devices and technologies used to fabricate wireless integrated circuits Contributors address key issues in the development of future silicon based systems such as scale of integration ultra low power dissipation and the integration of heterogeneous circuit design style and processes onto one substrate Wireless sensor network systems are now being applied in critical applications in commerce healthcare and security This reference which contains 25 practical and scientifically rigorous articles provides the knowledge communications engineers need to design innovative methodologies at the circuit and system level

Solid-state Microwave High-power Amplifiers Franco Sechi, Marina Bujatti, 2009 This practical resource offers expert guidance on the most critical aspects of microwave power amplifier design This comprehensive book provides descriptions of all the major active devices discusses large signal characterization explains all the key circuit design procedures Moreover you gain keen insight on the link between design parameters and technological implementation helping you achieve optimal solutions with the most efficient utilization of

available technologies The book covers a broad range of essential topics from requirements for high power amplifiers device models phase noise and power combiners to high efficiency amplifiers linear amplifier design bias circuits and thermal design

Envelope Tracking Power Amplifiers for Wireless Communications Zhancang Wang, 2014-06-01 Envelope tracking technology is seen as the most promising efficiency enhancement technology for RF power amplifiers for 4G and beyond wireless communications More and more organizations are investing and researching on this topic with huge potential in academic and commercial areas This is the first book on the market to offer complete introduction theory and design considerations on envelope tracking for wireless communications This resource presents you with a full introduction to the subject and covers underlying theory and practical design considerations

RF and Microwave Power Amplifier Design Andrei Grebennikov, 2004-09-15 This is a rigorous tutorial on radio frequency and microwave power amplifier design teaching the circuit design techniques that form the microelectronic backbones of modern wireless communications systems Suitable for self study corporate training or Senior Graduate classroom use the book combines analytical calculations and computer aided design techniques to arm electronic engineers with every possible method to improve their designs and shorten their design time cycles

Doherty Power Amplifiers Bumman Kim, 2018-03-28 Doherty Power Amplifiers From Fundamentals to Advanced Design Methods is a great resource for both RF and microwave engineers and graduate students who want to understand and implement the technology into future base station and mobile handset systems The book introduces the very basic operational principles of the Doherty Amplifier and its non ideal behaviors The different transconductance requirements for carrier and peaking amplifiers reactive element effect and knee voltage effect are described In addition several methods to correct imperfections are introduced such as uneven input drive gate bias adaptation dual input drive and the offset line technique Advanced design methods of Doherty Amplifiers are also explained including multistage multiway Doherty power amplifiers which can enhance the efficiency of the amplification of a highly modulated signal Other covered topics include signal tracking operation which increases the dynamic range highly efficient saturated amplifiers and broadband amplifiers amongst other comprehensive related topics Specifically written on the Doherty Power Amplifier by the world's leading expert providing an in depth presentation of principles and design techniques Includes detailed analysis on correcting non ideal behaviors of Doherty Power Amplifiers Presents advanced Doherty Power Amplifier architectures

Classic Works in RF Engineering John L. B. Walker, 2006 The growing interest in commercial RF applications and high frequency engineering has triggered a scramble for fundamental design and analysis information This expertly compiled resource gives microwave engineers instant one stop access to a vast range of essential source material in a single convenient volume

Design of RF and Microwave Amplifiers and Oscillators Pieter L. D. Abrie, 2009 This newly revised edition offers a comprehensive and current treatment of the subject and includes expanded derivations and problem sets helping to make the material even more accessible and easier to master

Introduction to

RF Power Amplifier Design and Simulation Abdullah Eroglu, 2018-09-03 Introduction to RF Power Amplifier Design and Simulation fills a gap in the existing literature by providing step by step guidance for the design of radio frequency RF power amplifiers from analytical formulation to simulation implementation and measurement Featuring numerous illustrations and examples of real world engineering applications this book Gives an overview of intermodulation and elaborates on the difference between linear and nonlinear amplifiers Describes the high frequency model and transient characteristics of metal oxide semiconductor field effect transistors Details active device modeling techniques for transistors and parasitic extraction methods for active devices Explores network and scattering parameters resonators matching networks and tools such as the Smith chart Covers power sensing devices including four port directional couplers and new types of reflectometers Presents RF filter designs for power amplifiers as well as application examples of special filter types Demonstrates the use of computer aided design CAD tools implementing systematic design techniques Blending theory with practice Introduction to RF Power Amplifier Design and Simulation supplies engineers researchers and RF microwave engineering students with a valuable resource for the creation of efficient better performing low profile high power RF amplifiers **Electronic Engineering and Information Science** Jing Hua Yin, Bo Su, Dong Xing Wang, 2014-07-08 Selected peer reviewed papers from the 2014 International Conference on Electronic Engineering and Information Science ICEEIS 2014 June 21 22 2014 Harbin China Fundamentals of Nonlinear Behavioral Modeling for RF and Microwave Design John Wood, David E. Root, 2005 A revised collection of groundbreaking presentations made at a recent IMS International Microwave Symposium workshop this cutting edge resource provides a comprehensive treatment of nonlinear behavioral modeling for RF and microwave circuits and systems from renowned experts in the field Presenting state of the art RF and microwave applications this practical book gives you hands on techniques that you can use immediately on your current projects Essentials of RF and Microwave Grounding Eric Holzman, 2006 Supported with more than 174 illustrations and utilizing simple derivations and results from numerical electromagnetic simulations of real components this single resource provides broad intuitive know how that helps practitioners overcome design challenges with speed and confidence Jacket

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