

Springer Series in Advanced Microelectronics 32

Fadhel M. Ghannouchi
Mohammad S. Hashmi

Load-Pull Techniques with Applications to Power Amplifier Design

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Load Pull Techniques With Applications To Power Amplifier Design

ML Morrison



Load Pull Techniques With Applications To Power Amplifier Design:

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 *The Load-pull Method of RF and Microwave Power Amplifier Design* John F. Sevic, 2020-06-26 Using the load pull method for RF and microwave power amplifier design This new book on RF power amplifier design by industry expert Dr John F Sevic provides comprehensive treatment of RF PA design using the load pull method the most widely used and successful method of design Intended for the newcomer to load pull or the seasoned expert the book presents a systematic method of generation of load pull contour data and matching network design to rapidly produce a RF PA with first pass success The method is suitable from HF to millimeter wave bands discrete or integrated and for high power applications Those engaged in design or fundamental research will find this book useful as will the student new to RF and interested in PA design The author presents a complete pedagogical methodology for RF PA design starting with treatment of automated contour generation to identify optimum transistor performance with constant source power load pull Advanced methods of contour generation for simultaneous optimization of many variables such as power efficiency and linearity are next presented This is followed by treatment of optimum impedance identification using contour data to address specific objectives such as optimum efficiency for a given linearity over a specific bandwidth The final chapter presents a load pull specific treatment of matching network design using load pull contour data applicable to both single stage and multi stage PA s Both lumped and distributed matching network synthesis methods are described with several worked matching network examples Readers will see a description of a powerful and accessible method that spans multiple RF PA disciplines including 5G base station and mobile applications as well as sat com and military applications load pull with CAD systems is also included They will review information presented through a practical hands on perspective The book Helps engineers develop systematic accurate and repeatable approach to RF PA design Provides in depth coverage of using the load pull method for first pass design success

Offers 150 illustrations and six case studies for greater comprehension of topics

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

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

Fundamentals of RF and Microwave Transistor Amplifiers Inder Bahl,2009-06-17 A Comprehensive and Up to Date Treatment of RF and Microwave Transistor Amplifiers This book provides state of the art coverage of RF and microwave transistor amplifiers including low noise narrowband broadband linear high power high efficiency and high voltage Topics covered include modeling analysis design packaging and thermal and fabrication considerations Through a unique integration of theory and practice readers will learn to solve amplifier related design problems ranging from matching networks to biasing and stability More than 240 problems are included to help readers test their basic amplifier and circuit design skills and more than half of the problems feature fully worked out solutions With an emphasis on theory design and everyday applications this book is geared toward students teachers scientists and practicing engineers who are interested in broadening their knowledge of RF and microwave transistor amplifier circuit design

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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

RF and Microwave Power Amplifier Design, Second Edition Andrei Grebennikov,2015-02-09 The latest power amp design methods Fully updated to address cutting edge technologies the new edition of this practical guide provides comprehensive state of the art coverage of RF and microwave power amplifier design The book describes both existing and new schematic configurations theoretical approaches circuit simulation results and implementation techniques New chapters discuss linearization and efficiency enhancement and high efficiency Doherty power amplifiers Featuring a systematic approach this comprehensive resource bridges the theory and practice of RF and microwave engineering RF and Microwave Power Amplifier Design Second Edition covers Two port network parameters and passive elements Nonlinear circuit design methods Nonlinear active device modeling Impedance matching Power transformers combiners and couplers Power amplifier design fundamentals High efficiency power amplifier design Broadband power amplifiers Linearization and efficiency enhancement techniques High efficiency Doherty power amplifiers

Microwave Wireless Communications Antonio Raffo,Giovanni Crupi,2016-03-01 To design and develop fast and effective microwave wireless systems today involves addressing the three different levels Device circuit and system This book presents the links and interactions between the three different levels rather than providing just a comprehensive coverage of one specific level With the aim of overcoming the sectional knowledge of microwave engineers this will be the first book focused on explaining how the three different levels interact by taking the reader on a journey through the different levels going from the theoretical background to the practical applications Explains the links and interactions between the three different design levels of wireless communication transmitters device circuit and system Presents state of the art challenges and future trends in the field of wireless communication systems Covers all aspects of both mature and cutting edge technologies for semiconductor devices for wireless communication applications Many circuit

designs outlining the limitations derived from the available transistor technologies and system requirements Explains how new microwave measurement techniques can represent an essential tool for microwave modellers and designers **1997 IEEE MTT-S Symposium on Technologies for Wireless Applications** ,1997 **Dissertation Abstracts International** ,2006 1996 High Performance Electron Devices for Microwave and Optoelectronic Applications Workshop, EDMO IEEE Electron Devices Society,1996 Progress in high performance microwave and optoelectronic devices is reported Power frequency and efficiencies of applications are described Characteristics and boundary limitations of applications in industry research and government are explored **RF MEMS Devices and Their Applications in Reconfigurable RF/microwave Circuits** Yumin Lu,2005 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2008 **2000 IEEE Radio Frequency Integrated Circuits (RFIC) Symposium** IEEE Microwave Theory and Techniques Society,IEEE Electron Devices Society,2000 *IEICE Transactions on Electronics* ,2003 **RF and Microwave Power Amplifier Designs Based on Novel Power Dividing/combining Techniques** Xin Jiang,2005 **International Workshop on Integrated Nonlinear Microwave and Millimeterwave Circuits** ,1994 *Gallium Arsenide Technology* David K. Ferry,1985 Principles of Electron Devices Angelo Christopher Gilli,1962 *Master Selection Guide and Catalogs* Motorola Semiconductor Products Inc,1975

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