



THOMAS H. LEE

The Design of CMOS Radio-Frequency Integrated Circuits

Second Edition

CAMBRIDGE

Design Of Cmos Radio Frequency Integrated Circuits

Cam Nguyen



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The Design of CMOS Radio-Frequency Integrated Circuits Thomas H. Lee, 2003-12-22 This book first published in 2004 is an expanded and thoroughly revised edition of Tom Lee's acclaimed guide to the design of gigahertz RF integrated circuits. A new chapter on the principles of wireless systems provides a bridge between system and circuit issues. The chapters on low noise amplifiers, oscillators, and phase noise have been significantly expanded. The chapter on architectures now contains several examples of complete chip designs including a GPS receiver and a wireless LAN transceiver that bring together the theoretical and practical elements involved in producing a prototype chip. Every section has been revised and updated with findings in the field, and the book is packed with physical insights and design tips and includes a historical overview that sets the whole field in context. With hundreds of circuit diagrams and homework problems, this is an ideal textbook for students taking courses on RF design and a valuable reference for practising engineers.

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RF design and a valuable reference for practising engineers *Radio Frequency Integrated Circuit Design* John W. M. Rogers, Calvin Plett, 2003 Focuses mainly on bipolar technology to demonstrate circuits but CMOS is included as well

High-Linearity CMOS RF Front-End Circuits Yongwang Ding, Ramesh Harjani, 2006-02-08 This book focuses on high performance radio frequency integrated circuits RF IC design in CMOS 1 Development of radio frequency ICs Wireless communications has been advancing rapidly in the past two decades Many high performance systems have been developed such as cellular systems AMPS GSM TDMA CDMA W CDMA etc GPS system global positioning system and WLAN wireless local area network systems The rapid growth of VLSI technology in both digital circuits and analog circuits provides benefits for wireless communication systems Twenty years ago not many people could imagine millions of transistors in a single chip or a complete radio for size of a penny Now not only complete radios have been put in a single chip but also more and more functions have been realized by a single chip and at a much lower price A radio transmits and receives electro magnetic signals through the air The signals are usually transmitted on high frequency carriers For example a typical voice signal requires only 30 Kilohertz bandwidth When it is transmitted by a FM radio station it is often carried by a frequency in the range of tens of megahertz to hundreds of megahertz Usually a radio is categorized by its carrier frequency such as 900 MHz radio or 5 GHz radio In general the higher the carrier frequency the better the directivity but the more difficult the radio design **Radio Frequency Integrated Circuits and Technologies** Frank Ellinger, 2008-09-11 In the last decade wireless communications engineering has seen outstanding progress making merged enhanced and novel applications in the area of mobile phones wireless networks sensors and television feasible Technologies have developed from hybrid systems to highly integrated solutions in silicon SiGe GaAs and InP By aggressive scaling of device dimensions below 0.1 μm and employing advanced technologies such as SOI strained silicon and low k circuits with operation frequencies and bandwidths up to approximately 100 GHz can now be fabricated However especially in silicon the restrictions inherent in scaling make circuit engineering a demanding task Examples of these drawbacks are the limited high frequency signal power leakage effects and significant parasitics in passive devices Enhanced circuit topologies and design techniques have to be applied to achieve maximum performance In this context designers must have profound skills in the following areas circuit theory IC technologies communications standards system design measurement techniques etc The aim of this book is to address all these multidisciplinary issues in a compact and comprehensive form and in a single volume Suitable for students engineers and scientists the manuscript provides the necessary theoretical background together with cookbook like optimisation strategies and state of the art design examples Each chapter is accompanied by tutorial questions repeating the key issues of the treated subjects The manuscript is organised as follows Chapter 1 preludes with an introduction concerned with the exciting history of integrated circuits technologies and wireless communications *Design Of Cmos Rf Integrated Circuits And Systems* Kiat Seng Yeo, Manh Anh Do, Chirn Chye Boon, 2010-03-24 This book provides the most comprehensive and in

depth coverage of the latest circuit design developments in RF CMOS technology It is a practical and cutting edge guide packed with proven circuit techniques and innovative design methodologies for solving challenging problems associated with RF integrated circuits and systems This invaluable resource features a collection of the finest design practices that may soon drive the system on chip revolution Using this book s state of the art design techniques one can apply existing technologies in novel ways and to create new circuit designs for the future

Radio-Frequency Integrated-Circuit Engineering Cam Nguyen,2015-03-04 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

Radio Frequency Integrated Circuits and Systems Hooman Darabi,2020-03-12 Equips students with essential industry relevant knowledge through in depth explanations practical applications examples and exercises

Automated Hierarchical Synthesis of Radio-Frequency Integrated Circuits and Systems Fábio Passos,Elisenda Roca,Rafael Castro-López,Francisco V. Fernández,2020-07-11 This book describes a new design methodology that allows optimization based synthesis of RF systems in a hierarchical multilevel approach in which the system is designed in a bottom up fashion from the device level up to the sub system level At each level of the design hierarchy the authors discuss methods that increase the design robustness and increase the accuracy and efficiency of the simulations The methodology described enables circuit sizing and layout in a complete and automated integrated manner achieving optimized designs in significantly less time than with traditional approaches

Radio Frequency Integrated Circuits and Systems Hooman Darabi,2020-03-12 This updated and expanded new edition equips students with a thorough understanding of the state of the art in radio frequency RF design and the practical knowledge and skills needed in industry Introductory and advanced topics are covered in depth with clear step by step explanations including core topics such as RF components signals and systems two ports noise distortion low noise amplifiers power amplifiers and transceiver architectures New material has been added on wave propagation skin effect antennas mixers and oscillators and digital PAs and transmitters Two new chapters detail the analysis and design of RF and IF filters including SAW and FBAR duplexers and N path filters phase locked loops frequency synthesizers digital PLLs and frequency dividers Theory is linked to practice through real world applications practical design examples and exploration of the pros and cons of various topologies Over 250 homework problems are included with solutions and lecture slides for

instructors available online With its uniquely practical and intuitive approach this is an essential text for graduate courses on RFICs and a useful reference for practicing engineers **Linear CMOS RF Power Amplifiers** Hector Solar Ruiz,Roc Berenguer Pérez,2013-09-14 The work establishes the design flow for the optimization of linear CMOS power amplifiers from the first steps of the design to the final IC implementation and tests The authors also focuses on design guidelines of the inductor s geometrical characteristics for power applications and covers their measurement and characterization Additionally a model is proposed which would facilitate designs in terms of transistor sizing required inductor quality factors or minimum supply voltage The model considers limitations that CMOS processes can impose on implementation The book also provides different techniques and architectures that allow for optimization

Radio Frequency Integrated Circuit Design for Cognitive Radio Systems Amr Fahim,2015-03-03 This book fills an information gap on cognitive radios since the discussion focuses on the implementation issues that are unique to cognitive radios and how to solve them at both the architecture and circuit levels This is the first book to describe in detail cognitive radio systems as well as the circuit implementation and architectures required to implement such systems Throughout the book requirements and constraints imposed by cognitive radio systems are emphasized when discussing the circuit implementation details This is a valuable reference for anybody with background in analog and radio frequency RF integrated circuit design needing to learn more about integrated circuits requirements and implementation for cognitive radio systems

On-Chip Electro-Static Discharge (ESD) Protection for Radio-Frequency Integrated Circuits Qiang Cui,Juin J. Liou,Jean-Jacques Hajjar,Javier Salcedo,Yuanzhong Zhou,Parthasarathy Srivatsan,2015-03-10 This book enables readers to design effective ESD protection solutions for all mainstream RF fabrication processes GaAs pHEMT SiGe HBT CMOS The new techniques introduced by the authors have much higher protection levels and much lower parasitic effects than those of existing ESD protection devices The authors describe in detail the ESD phenomenon as well as ESD protection fundamentals standards test equipment and basic design strategies Readers will benefit from realistic case studies of ESD protection for RFICs and will learn to increase significantly modern RFICs ESD safety level while maximizing RF performance

RF CMOS Power Amplifiers: Theory, Design and Implementation Mona M. Hella,Mohammed Ismail,2005-12-27 RF CMOS Power Amplifiers Theory Design and Implementation focuses on the design procedure and the testing issues of CMOS RF power amplifiers This is the first monograph addressing RF CMOS power amplifier design for emerging wireless standards The focus on power amplifiers for short is distance wireless personal and local area networks PAN and LAN however the design techniques are also applicable to emerging wide area networks WAN infrastructure using micro or pico cell networks The book discusses CMOS power amplifier design principles and theory and describes the architectures and tradeoffs in designing linear and nonlinear power amplifiers It then details design examples of RF CMOS power amplifiers for short distance wireless applications e g Bluetooth WLAN including designs for multi standard platforms Design aspects of RF circuits in deep submicron CMOS are

also discussed RF CMOS Power Amplifiers Theory Design and Implementation serves as a reference for RF IC design engineers and RD and R D managers in industry and for graduate students conducting research in wireless semiconductor IC design in general and with CMOS technology in particular

Radio Frequency Integrated Circuits and Technologies Frank Ellinger, 2008-08-14 The striking feature of this book is its coverage of the upper GHz domain However the latest technologies applications and broad range of circuits are discussed Design examples are provided including cookbook like optimization strategies This state of the art book is valuable for researchers as well as for engineers in industry Furthermore the book serves as fruitful basis for lectures in the area of IC design

Integrated Circuit Design for High-speed Frequency Synthesis John W. M. Rogers, Calvin Plett, Foster Dai, 2006 Get hands on expertise in the design of frequency synthesizers in high speed integrated circuits with this complete one stop resource packed with straight from the lab techniques procedures and applications It delivers a definitive introduction to system architecture and behavioral analysis Moreover you find detailed circuit implementation guidance for state of the art synthesizer designs emphasizing phase locked loop based analog synthesizers and direct digital synthesizers and their applications in CMOS and BiCMOS technologies

Design of CMOS RFIC Ultra-Wideband Impulse Transmitters and Receivers Cam Nguyen, Meng Miao, 2017-03-21 This book presents the design of ultra wideband UWB impulse based transmitter and receiver frontends operating within the 3.1 10.6 GHz frequency band using CMOS radio frequency integrated circuits RFICs CMOS RFICs are small cheap low power devices better suited for direct integration with digital ICs as compared to those using III V compound semiconductor devices CMOS RFICs are thus very attractive for RF systems and in fact the principal choice for commercial wireless markets The book comprises seven chapters The first chapter gives an introduction to UWB technology and outlines its suitability for high resolution sensing and high rate short range ad hoc networking and communications The second chapter provides the basics of CMOS RFICs needed for the design of the UWB RFIC transmitter and receiver presented in this book It includes the design fundamentals lumped and distributed elements for RFIC layout post layout simulation and measurement The third chapter discusses the basics of UWB systems including UWB advantages and applications signals basic modulations transmitter and receiver frontends and antennas The fourth chapter addresses the design of UWB transmitters including an overview of basic components design of pulse generator BPSK modulator design and design of a UWB tunable transmitter Chapter 5 presents the design of UWB receivers including the design of UWB low noise amplifiers correlators and a UWB 1 receiver Chapter 6 covers the design of a UWB uniplanar antenna Finally a summary and conclusion is given in Chapter 7

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