

Radio Frequency

Integrated Circuit (RFIC)



Radio Frequency Integrated Circuits And Systems

**Fábio Passos, Elisenda Roca, Rafael
Castro-López, Francisco V. Fernández**



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Radio Frequency Integrated Circuits and Systems Hooman Darabi,2015 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 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

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 Technologies Frank Ellinger,2009-09-02 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

IEEE Transactions on Circuits and Systems ,2006 **Integrated Circuit and System Design** ,2003 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

IEEE Radio Frequency Integrated Circuits Symposium (Rfic) 2012 Brian Floyd,IEEE Staff,Institute of Electrical and Electronics Engineers,IEEE Microwave Theory and Techniques Society,IEEE Electron Devices Society,IEEE Solid-State Circuits Society,2012-06-17 Technical sessions panel sessions and workshops in RFIC circuit design including wireless system transceiver design RF building block circuits 60GHz circuits systems and advanced RF

Modeling, Simulation, and Optimization of Integrated Circuits K. Antreich,R. Bulirsch,A. Gilg,P. Rentrop,2012-12-06 In November 2001 the Mathematical Research Center at Oberwolfach Germany hosted the third Conference on Mathematical Models and Numerical Simulation in Electronic Industry It brought together researchers in mathematics electrical engineering and scientists working in industry The contributions to this volume try to bridge the gap between basic and applied mathematics research in electrical engineering and the needs of industry

High-Frequency Integrated Circuits Sorin Voinigescu,2013-02-28 A transistor level design intensive overview of high speed and high frequency monolithic integrated circuits for wireless and broadband systems from 2 GHz to 200 GHz this comprehensive text covers high speed RF mm wave and optical fiber circuits using nanoscale CMOS SiGe BiCMOS and III V technologies Step by step design methodologies end of chapter problems and practical simulation and design projects are provided making this an ideal resource for senior undergraduate and graduate courses in circuit design With an emphasis on device circuit topology interaction and optimization it gives circuit designers and students alike an in depth understanding of device structures and process limitations affecting circuit performance

TELSIKS ,1999 2019 IEEE Radio Frequency Integrated Circuits

Symposium (RFIC) IEEE Staff,2019-06-02 The conference is part of the IMS Microwave Week and focus on advanced in state of the art in the field of RF integrated circuits Topics cover RFIC circuits systems engineering design methodology RF modeling and CAD simulation RFIC technologies device technologies fabrication testing reliability packaging and modules to support RF applications in areas such as Wireless Cellular and Connectivity Low Power Transceivers Receiver Sub Systems and Circuits Mixed Signal RF and Data Converters Reconfigurable and Tunable Front Ends Transmitter Sub Systems and Power Amplifiers Oscillators Frequency Synthesis Millimeter and Sub Millimeter Wave Systems and High Speed Data Transceivers

Computational Intelligence in Analog and Mixed-Signal (AMS) and Radio-Frequency (RF) Circuit Design Mourad Fakhfakh,Esteban Tlelo-Cuautle,Patrick Siarry,2015-07-14 This book explains the application of recent advances in computational intelligence algorithms design methodologies and synthesis techniques to the design of integrated circuits and systems It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high performance digital VLSI radio frequency and mixed signal circuits and systems This first of two related volumes addresses the design of analog and mixed signal AMS and radio frequency RF circuits with 17 chapters grouped into parts on analog and mixed signal applications and radio frequency design It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits

Ultra-Low-Power Short-Range Radios Patrick P. Mercier,Anantha P. Chandrakasan,2015-07-21 This book explores the design of ultra low power radio frequency integrated circuits RFICs with communication distances ranging from a few centimeters to a few meters The authors describe leading edge techniques to achieve ultra low power communication over short range links Many different applications are covered ranging from body area networks to transcutaneous implant communications and smart appliance sensor networks Various design techniques are explained to facilitate each of these applications

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

Advances in Analog and RF IC Design for Wireless Communication Systems Gabriele Manganaro,Domine Leenaerts,2013-05-13 The recent and dramatic increase in demand for mobile data communication driven by consumer devices such as smartphones and tablets is resulting in

heightened technical challenges for the wireless infrastructure that lies as a bridge in between these mobile terminals and the wired network transferring the data between final users Several challenges arise in the design of the electronics behind the wireless infrastructure access points or base stations This Chapter provides an overview of the present state challenges and trends in the RF analog and mixed signal electronics for wireless infrastructure and provides a frame to orient the reader of this book to the following chapters covering the specifics of the technologies involved

Radio-Frequency Electronics Jon B. Hagen, 2009-06-11 This second updated edition of the best selling Radio Frequency Electronics introduces the basic concepts and key circuits of radio frequency systems It covers the fundamental principles applying to all radio devices from wireless single chip data transceivers to high power broadcast transmitters This new edition is extensively revised and expanded throughout including additional chapters on radar digital modulation GPS navigation and S parameter circuit analysis New worked examples and end of chapter problems are included to aid and test understanding of the topics covered as well as numerous extra figures to provide a visual aid to learning Key topics covered include filters amplifiers oscillators modulators low noise amplifiers phase lock loops transformers waveguides and antennas Assuming no prior knowledge of radio electronics this is a perfect introduction to the subject It is an ideal textbook for junior or senior courses in electrical engineering as well as an invaluable reference for professional engineers in this area

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

RF Systems, Components, and Circuits Handbook Ferril Losee, 1997 Here is the one and only book you need to get up to speed fast on the latest developments and key applications of radio frequency RF engineering technology This valuable reference tool helps high tech and non tech professionals alike gain a solid broad understanding of the many types of RF systems and equipment in use today

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