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Radio Frequency Microelectronic Circuits For Telecommunication Applications

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Radio Frequency Microelectronic Circuits For Telecommunication Applications:

Radio-Frequency Microelectronic Circuits for Telecommunication Applications Yannis E. Papananos, 2013-03-09
Radio Frequency Microelectronic Circuits for Telecommunication Applications covers the design issues of radio frequency microelectronic circuits for telecommunication applications with emphasis on devices and circuit level design. It uses a large number of real examples from industrial design as a vehicle both to teach the principles and to ensure relevance starting from device level modeling to basic RF microelectronic circuit cell design. Modeling for high frequency operation of both active and passive integrated devices is covered starting from the bipolar transistor to the MOS transistor to the modeling of integrated spiral inductors, resistors, capacitors, varactors, and package parasitics structures. A chapter is also devoted to the presentation of the basic definitions and terminology used in RF IC design. The book continues with the presentation of the principal building blocks of an integrated RF front end, namely the LNA, the mixer, the VCO, and integrated filters. Design paradigms are provided, classified on the technology used in each case: pure bipolar, CMOS, BiCMOS, or SiGe. *Radio Frequency Microelectronic Circuits for Telecommunication Applications* is essential reading for all researchers, practising engineers, and designers working in RF electronics. It is also a reference for use in advanced undergraduate or graduate courses in the same field. *Radio-Frequency Microelectronic Circuits for Telecommunication Applications* Yannis Papananos, 2014-01-15

Complex, Intelligent and Software Intensive Systems Leonard Barolli, 2022-06-16
Software intensive systems are systems which heavily interact with other systems: sensors, actuators, devices, other software systems, and users. More and more domains are involved with software intensive systems, e.g., automotive telecommunication systems, embedded systems in general, industrial automation systems, and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components. Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations, builds a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is a very important factor for the future development and innovation of software intensive and complex systems. The aim of the book *Complex Intelligent and Software Intensive Systems* is to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT enabled applications: software intensive systems, complex systems, and intelligent systems. **American Book Publishing Record**, 2005 **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

Low-Power Design Techniques and CAD Tools for Analog and RF Integrated Circuits Piet Wambacq, Georges Gielen, John Gerrits, 2007-05-08 This unique book provides an overview of the current state of the art and very recent research results that have been achieved as part of the Low Power Initiative of the European Union in the field of analogue RF and mixed signal design methodologies and CAD tools

Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004

SiGe-based Re-engineering of Electronic Warfare Subsystems Wynand Lambrechts, Saurabh Sinha, 2016-10-19 This book provides readers a thorough understanding of the applicability of new generation silicon germanium SiGe electronic subsystems for electronic warfare and defensive countermeasures in military contexts It explains in detail the theoretical and technical background and addresses all aspects of the integration of SiGe as an enabling technology for maritime land and airborne spaceborne electronic warfare including research design development and implementation The coverage is supported by mathematical derivations informative illustrations practical examples and case studies While SiGe technology provides speed performance and price advantages in many markets to date only limited information has been available on its use in electronic warfare systems especially in developing nations Addressing that need this book offers essential engineering guidelines that especially focus on the speed and reliability of current generation SiGe circuits and highlight emerging innovations that help to ensure the sustainable long term integration of SiGe into electronic warfare systems

Subject Guide to Books in Print, 2001

Fundamentals of Microelectronics Dr. Y. Chalapathi Rao, Dr. V. Sagar Reddy, Dr. Chevella Anil Kumar, 2025-06-03 Fundamentals of Microelectronics provides a comprehensive introduction to the principles and design of analog and digital microelectronic circuits It covers key topics such as semiconductor devices amplifiers and integrated circuit design combining theory with practical insights making it ideal for students and professionals in electrical and electronics engineering

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