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Design and Development of Radio Frequency Identification (RFID) and RFID-enabled Sensors on Flexible Low Cost Substrates Li Yang,Amin Rida,Manos M. Tentzeris,2009 This book presents a step by step discussion of the design and development of radio frequency identification RFID and RFID enabled sensors on flexible low cost substrates for UHF frequency bands Various examples of fully function building blocks design and fabrication of antennas integration with ICs and microcontrollers power sources as well as inkjet printing techniques demonstrate the revolutionary effect of this

approach in low cost RFID and RFID enabled sensors fields This approach could be easily extended to other microwave and wireless applications as well The first chapter describes the basic functionality and the physical and IT related principles underlying RFID and sensors technology Chapter two explains in detail inkjet printing technology providing the characterization of the conductive ink which consists of nano silver particles while highlighting the importance of this technology as a fast and simple fabrication technique especially on flexible organic substrates such as Liquid Crystal Polymer LCP or paper based substrates Chapter three demonstrates several compact inkjet printed UHF RFID antennas using antenna matching techniques to match IC s complex impedance as prototypes to provide the proof of concept of this technology Chapter four discusses the benefits of using conformal magnetic material as a substrate for miniaturized high frequency circuit applications In addition in Chapter five the authors also touch up the state of the art area of fully integrated wireless sensor modules on organic substrates and show the first ever 2D sensor integration with an RFID tag module on paper as well as the possibility of 3D multilayer paper based RF microwave structures

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Hybrid quantum system based on rare earth doped crystals Probst, Sebastian,2016-09-05 Hybrid quantum circuits interfacing rare earth spin ensembles with microwave resonators are a promising approach for application as coherent quantum memory and frequency converter In this thesis hybrid circuits based on Er and Nd ions doped into Y SiO and YAlO crystals are investigated by optical and on chip microwave spectroscopy Coherent strong coupling between the microwave resonator and spin ensemble as well as a multimode memory for weak coherent microwave pulses are demonstrated

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Planar Spiral Inductors, Planar Antennas and Embedded Planar Transformers Amal Banerjee,2022-08-26 This book presents a novel automated accurate and unified scheme to design and determine the performance characteristics of standalone planar spiral inductors and multiple coupled planar spiral inductors as in embedded transformers for RF microwave MMIC designers The author demonstrates with a set of analysis design examples a novel scheme that exploits judiciously the existing transmission theory and concepts organizing and condensing available scattered information knowledge about planar spiral inductor embedded planar transformer and planar antenna design and performance evaluation into one coherent and unified electronic circuit model easily used by radio frequency electronic circuit engineers A dedicated chapter contains an exhaustive 19 set of design examples Presents a bottom up scheme starting with Maxwell s equations of classical electrodynamics and transmission line theory Telegrapher s equation specifically microstrips Demonstrates design of standalone planar spiral inductors and multiple coupled planar spiral inductors Includes a set of ready to use C executables for both Linux and Windows that accept predefined input parameters for each of the sub circuits discussed and generate SPICE netlists for the equivalent electrical circuit Automates execution of multi step design calculations to guarantee their accuracy and reliability

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

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(WCS)Microwave Engineering with Study Tips Set David M. Pozar,2004-11-25 Design and Modeling of Microwave and Millimeter-wave Vacuum Electronic Devices HsinLu Hsu,2006 APTIKOM Journal on Computer Science and Information Technologies (CSIT) Vol. 6 No. 1 March 2021 APTIKOM Journal on Computer Science and Information Technologies (CSIT) ,Dr. Ir. Untung Rahardja, M.T.I., MM,2021-05-31 CSIT APTIKOM Journal on Computer Science and Information Technologies Published by APTIKOM Organized by Aptikom Publisher and Pandawan CSIT is published three a year every March July and November **Components and Devices** T. Koryu Ishii,2013-10-22 Handbook of Microwave Technology Volume I Components and Devices is a compact reference tool which provides both the fundamentals and applications of microwave technology This volume covers components and devices used in microwave circuits Chapters in the book discuss topics on microwave transmission lines microwave resonators and microstrip line components Microwave impedance matching techniques applications of microwave thermionic density modulated devices and microwave transistor oscillators and amplifiers are tackled as well Technicians scientists engineers and science and engineering students who are involved in microwave technology will find the text very useful **Advanced Metallization Conference 2004 (AMC 2004)** Darrell Erb,2005 Superconductivity Applications for Infrared and Microwave Devices II K. B. Bhasin,1991 **Antenna Design Using Personal Computers** David M. Pozar,1985 **Micro Molding of Polymeric Antennas and Energy Harvesters** Yiin-Kuen Fuh,2009 *Wescon ... Conference Proceedings* ,1997

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