

Ai-Qun Liu

RF MEMS Switches and Integrated Switching Circuits

Design, Fabrication, and Test



Springer

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RF MEMS Switches and Integrated Switching Circuits Ai-Qun Liu, 2010-08-09 Microelectromechanical Systems MEMS stand poised for the next major breakthrough in the silicon revolution that began with the transistor in the 1960s and has revolutionized microelectronics MEMS allow one to not only observe and process information of all types from small scale systems but also to affect changes in systems and the environment at that scale RF MEMS Switches and Integrated Switching Circuits builds on the extensive body of literature that exists in research papers on analytical and numerical modeling and design based on RF MEMS switches and micromachined switching circuits and presents a unified framework of coverage This volume includes but is not limited to RF MEMS approaches developments from RF MEMS switches to RF switching circuits and MEMS switch components in circuit systems This book also Presents RF Switches and switching circuit MEMS devices in a unified framework covering all aspects of engineering innovation design modeling fabrication control and experimental implementation Discusses RF switch devices in detail with both system and component level circuit integration using micro and nano fabrication techniques Includes an emphasis on design innovation and experimental relevance rather than basic electromagnetic theory and device physics RF MEMS Switches and Integrated Switching Circuits is perfect for engineers researchers and students working in the fields of MEMS circuits and systems and RFs [Handbook of RF, Microwave, and Millimeter-wave Components](#) Leonid A. Belov, Sergey M. Smolskiy, Viktor Neofidovich Kochemasov, 2012 This unique and comprehensive resource offers you a detailed treatment of the operations principles key parameters and specific characteristics of active and passive RF microwave and millimeter wave components The book covers both linear and nonlinear components that are used in a wide range of application areas from communications and information sciences to avionics space and military engineering This practical book presents descriptions and clear examples and of the best materials and products used in the field including laminates prepregs substrates microstrip coaxial and waveguide transmission lines fixed and rotating connectors matching and adjusting elements frequency filters phase shifters and ferrite gates and circulators Moreover the book offers you in depth discussions on microwave switches and matrices including MEMS technology solid state and vacuum amplifiers mixers modulators and demodulators and oscillation sources You also find coverage of the stable frequency synthesizer structure and sources of modulated or noisy signals Greatly adding to the usefulness of this volume is the inclusion of more than 700 Internet addresses of manufacturers from across the globe

Practical Guide to RF-MEMS Jacopo Iannacci, 2013-08-12 Closes the gap between hardcore theoretical and purely experimental RF MEMS books The book covers from a practical viewpoint the most critical steps that have to be taken in order to develop novel RF MEMS device concepts Prototypical RF MEMS devices both including lumped components and complex networks are presented at the beginning of the book as reference examples and these are then discussed from different perspectives with regard to design simulation packaging testing and post fabrication modeling Theoretical concepts

are introduced when necessary to complement the practical hints given for all RF MEMS development stages Provides researchers and engineers with invaluable practical hints on how to develop novel RF MEMS device concepts Covers all critical steps dealing with design simulation optimization characterization and fabrication of MEMS for radio frequency applications Addresses frequently disregarded issues explicitly treating the hard to predict interplay between the three dimensional device structure and its electromagnetic functionality Bridges theory and experiment fundamental concepts are introduced with the application in mind and simulation results are validated against experimental results Appeals to the practice oriented R D reader design and simulation examples are based on widely known software packages such as ANSYS and the hardware description language Verilog International Aerospace Abstracts ,1999 **RF MEMS** Gabriel M. Rebeiz,2004-02-06 Ultrasmall Radio Frequency and Micro wave Microelectromechanical systems RF MEMs such as switches varactors and phase shifters exhibit nearly zero power consumption or loss For this reason they are being developed intensively by corporations worldwide for use in telecommunications equipment This book acquaints readers with the basics of RF MEMs and describes how to design practical circuits and devices with them The author an acknowledged expert in the field presents a range of real world applications and shares many valuable tricks of the trade **RF MEMS and Their Applications** Vijay K. Varadan,K. J. Vinoy,K. A. Jose,2003-07-25 Microelectromechanical systems MEMS refer to a collection of micro sensors and actuators which can react to environmental change under micro circuit control The integration of MEMS into traditional Radio Frequency RF circuits has resulted in systems with superior performance levels and lower manufacturing costs The incorporation of MEMS based fabrication technologies into micro and millimeter wave systems offers viable routes to ICs with MEMS actuators antennas switches and transmission lines The resultant systems operate with an increased bandwidth and increased radiation efficiency and have considerable scope for implementation within the expanding area of wireless personal communication devices This text provides leading edge coverage of this increasingly important area and highlights the overlapping information requirements of the RF and MEMS research and development communities Provides an introduction to micromachining techniques and their use in the fabrication of micro switches capacitors and inductors Includes coverage of MEMS devices for wireless and Bluetooth enabled systems Essential reading for RF Circuit design practitioners and researchers requiring an introduction to MEMS technologies as well as practitioners and researchers in MEMS and silicon technology requiring an introduction to RF circuit design **RF MEMS Circuit Design for Wireless Communications** Héctor J. de los Santos,2002 This is the first comprehensive book to address the design of RF MEMS based circuits for use in high performance wireless systems A groundbreaking research and reference tool the book enables you to understand the realm of applications of RF MEMS technology become knowledgeable of the wide variety and performance levels of RF MEMS devices and partition the architecture of wireless systems to achieve greater levels of performance This innovative resource also guides you through the design process of RF MEMS based

circuits and establishes a practical knowledge base for the design of high yield RF MEMS based circuits The book features exercises and detailed case studies on working RF MEMS circuits that help you decide what approaches best fit your design constraints This unified treatment of RF MEMS based circuit technology opens up a new world of solutions for meeting the unique challenges of low power portable wireless products **Advanced RF MEMS** Stepan Lucyszyn, 2010-08-19 An up to date guide to the theory and applications of RF MEMS With detailed information about RF MEMS technology as well as its reliability and applications this is a comprehensive resource for professionals researchers and students alike Reviews RF MEMS technologies Illustrates new techniques that solve long standing problems associated with reliability and packaging Provides the information needed to incorporate RF MEMS into commercial products Describes current and future trends in RF MEMS providing perspective on industry growth Ideal for those studying or working in RF and microwave circuits systems microfabrication and manufacturing production management and metrology and performance evaluation

Handbook of Mems for Wireless and Mobile Applications Deepak Uttamchandani, 2013-08-31 The increasing demand for mobile and wireless sensing necessitates the use of highly integrated technology featuring small size low weight high performance and low cost micro electro mechanical systems MEMS can meet this need The Handbook of MEMS for wireless and mobile applications provides a comprehensive overview of radio frequency RF MEMS technologies and explores the use of these technologies over a wide range of application areas Part one provides an introduction to the use of RF MEMS as an enabling technology for wireless applications Chapters review RF MEMS technology and applications as a whole before moving on to describe specific technologies for wireless applications including passive components phase shifters and antennas Packaging and reliability of RF MEMS is also discussed Chapters in part two focus on wireless techniques and applications of wireless MEMS including biomedical applications such as implantable MEMS intraocular pressure sensors and wireless drug delivery Further chapters highlight the use of RF MEMS for automotive radar the monitoring of telecommunications reliability using wireless MEMS and the use of optical MEMS displays in portable electronics With its distinguished editor and international team of expert authors the Handbook of MEMS for wireless and mobile applications is a technical resource for MEMS manufacturers the electronics industry and scientists engineers and academics working on MEMS and wireless systems Reviews the use of radio frequency RF MEMS as an enabling technology for wireless applications Discusses wireless techniques and applications of wireless MEMS including biomedical applications Describes monitoring structures and the environment with wireless MEMS *RF-MEMS Switches Designed for High-Performance Uniplanar Microwave and Mm-Wave Circuits* Lluís Pradell, 2018 Radio frequency microelectromechanical system RF MEMS switches have demonstrated superior electrical performance lower loss and higher isolation compared to semiconductor based devices to implement reconfigurable microwave and millimeter mm wave circuits In this chapter electrostatically actuated RF MEMS switch configurations that can be easily integrated in uniplanar circuits are presented The design

procedure and fabrication process of RF MEMS switch topologies able to control the propagating modes of multimodal uniplanar structures those based on a combination of coplanar waveguide CPW coplanar stripline CPS and slotline will be described in detail Generalized electrical multimodal and mechanical models will be presented and applied to the switch design and simulation The switch simulated results are compared to measurements confirming the expected performances Using an integrated RF MEMS surface micromachining process high performance multimodal reconfigurable circuits such as phase switches and filters are developed with the proposed switch configurations The design and optimization of these circuits are discussed and the simulated results compared to measurements

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