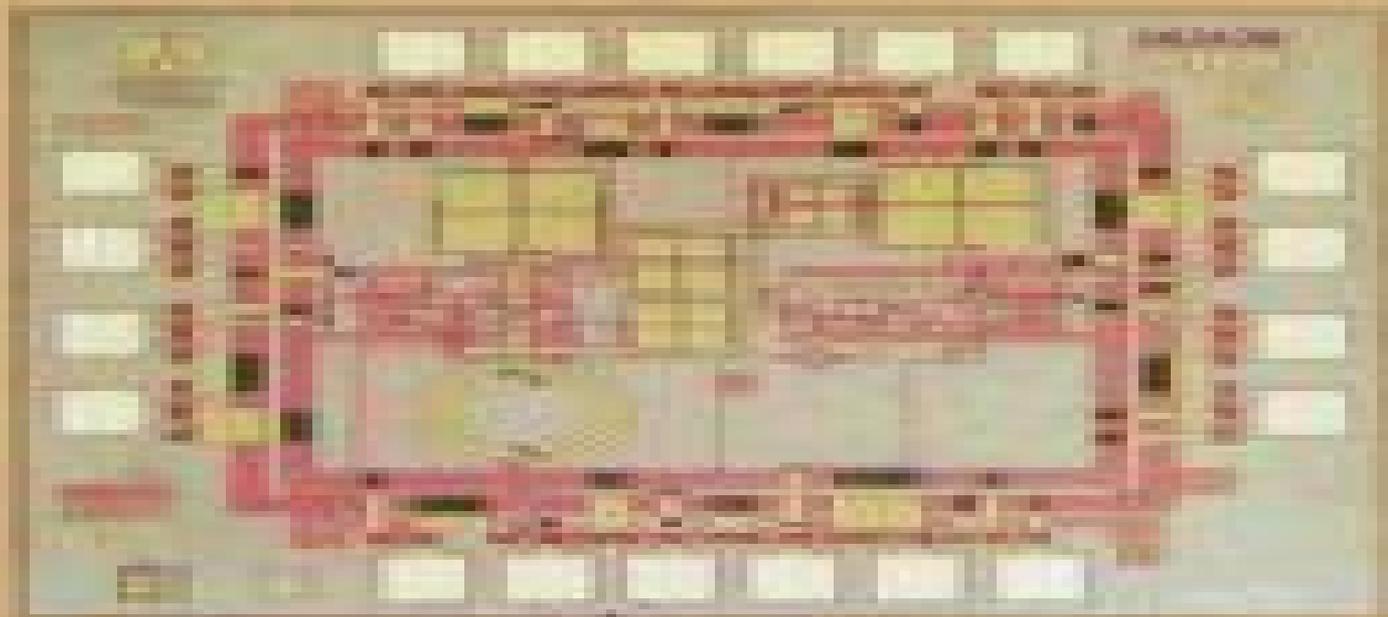


Design, Simulation and Applications of

# Inductors and Transformers for Si RF ICs

Ali M. Niknejad  
Robert G. Meyer



# Design Simulation And Applications Of Inductors And Transformers

**Sorin Voinigescu**



## **Design Simulation And Applications Of Inductors And Transformers:**

*Design, Simulation and Applications of Inductors and Transformers for Si RF ICs* Ali M. Niknejad, Robert G. Meyer, 2005-12-15 The modern wireless communication industry has put great demands on circuit designers for smaller cheaper transceivers in the gigahertz frequency range One tool which has assisted designers in satisfying these requirements is the use of on chip inductive elements inductors and transformers in silicon Si radio frequency RF integrated circuits ICs These elements allow greatly improved levels of performance in Si monolithic low noise amplifiers power amplifiers up conversion and down conversion mixers and local oscillators Inductors can be used to improve the intermodulation distortion performance and noise figure of small signal amplifiers and mixers In addition the gain of amplifier stages can be enhanced and the realization of low cost on chip local oscillators with good phase noise characteristics is made feasible In order to reap these benefits it is essential that the IC designer be able to predict and optimize the characteristics of on chip inductive elements Accurate knowledge of inductance values quality factor Q and the influence of adjacent elements on chip proximity effects and substrate losses is essential In this book the analysis modeling and application of on chip inductive elements is considered Using analyses based on Maxwells equations an accurate and efficient technique is developed to model these elements over a wide frequency range Energy loss to the conductive substrate is modeled through several mechanisms including electrically induced displacement and conductive currents and by magnetically induced eddy currents These techniques have been compiled in a user friendly software tool ASITIC Analysis and Simulation of Inductors and Transformers for Integrated Circuits

**Microwave Circuit Design Using Linear and Nonlinear Techniques** George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, Matthias Rudolph, 2021-04-08 Four leaders in the field of microwave circuit design share their newest insights into the latest aspects of the technology The third edition of *Microwave Circuit Design Using Linear and Nonlinear Techniques* delivers an insightful and complete analysis of microwave circuit design from their intrinsic and circuit properties to circuit design techniques for maximizing performance in communication and radar systems This new edition retains what remains relevant from previous editions of this celebrated book and adds brand new content on CMOS technology GaN SiC frequency range and feedback power amplifiers in the millimeter range region The third edition contains over 200 pages of new material The distinguished engineers academics and authors emphasize the commercial applications in telecommunications and cover all aspects of transistor technology Software tools for design and microwave circuits are included as an accompaniment to the book In addition to information about small and large signal amplifier design and power amplifier design readers will benefit from the book s treatment of a wide variety of topics like An in depth discussion of the foundations of RF and microwave systems including Maxwell s equations applications of the technology analog and digital requirements and elementary definitions A treatment of lumped and distributed elements including a discussion of the parasitic effects on lumped elements Descriptions of active devices including diodes microwave transistors

heterojunction bipolar transistors and microwave FET Two port networks including S Parameters from SPICE analysis and the derivation of transducer power gain Perfect for microwave integrated circuit designers the third edition of Microwave Circuit Design Using Linear and Nonlinear Techniques also has a place on the bookshelves of electrical engineering researchers and graduate students It s comprehensive take on all aspects of transistors by world renowned experts in the field places this book at the vanguard of microwave circuit design research

### **Integrated Inductors and Transformers**

Egidio Ragonese,Angelo Scuderi,Tonio Biondi,Giuseppe Palmisano,2010-11-15 With the ability to improve performance reduce fabrication costs and increase integration levels of both RX and TX sections of the RF mm wave front end passive inductive components have experienced extraordinary growth in ICs Therefore a fundamental understanding of monolithic inductors and transformers has become essential for all process eng

### **The Circuits and Filters Handbook**

Wai-Kai Chen,2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer

### **CMOS**

**RF and mm-Wave Transceivers and Synthesizers** Bharatha Kumar Thangarasu,Nagarajan Mahalingam,Kaixue Ma,Kiat Seng Yeo,2025-10-14 Power consumption has become a critical concern in RF mm wave integrated circuit IC design thanks to new applications from 5G mobile computing artificial intelligence and the Internet of Things However big challenges lie ahead for chip designers when they choose to develop ICs using silicon technology for low power and high data rate applications This is because silicon technology suffers from undesirable energy dissipation due to its lossy substrate and high resistive wiring loss at GHz frequencies Nonetheless silicon remains the most suitable material satisfying the demands of a rapidly growing semiconductor market through low fabrication cost and ease of achieving system on chip or system in package integration While long being neglected low power RF mm wave design has vaulted to the forefront of attention in recent years due to the demand for ultra low power transceivers to achieve sustainability Designing genuinely ubiquitous transceivers for these new applications requires innovations in both system architecture and circuit implementation This book closes the gap between a typical textbook with theories that are difficult to understand and a design oriented book that offers little insight into actual theories It evaluates and discusses different circuit topologies receiver and transmitter architectures phase locked loop performance metrics phase noise analysis and sub system level designs that have yet to be reported in other books

### **Fabrication of SiGe HBT BiCMOS Technology**

John D. Cressler,2018-10-03 SiGe HBT BiCMOS technology is the obvious groundbreaker of the Si heterostructures application space To date virtually every major player in the communications electronics market either has SiGe up and running in house or is using someone else s SiGe fab as foundry for their designers Key to this success lies in successful integration of the SiGe HBT and Si CMOS with no loss of performance from either device Filled with contributions from leading experts Fabrication of SiGe HBT BiCMOS

Technologies brings together a complete discussion of these topics into a single resource Drawn from the comprehensive and well reviewed Silicon Heterostructure Handbook this volume examines the design fabrication and application of silicon heterostructure transistors A novel aspect of this book the inclusion of numerous snapshot views of the industrial state of the art for SiGe HBT BiCMOS technology It has been carefully designed to provide a useful basis of comparison for the current status and future course of the global industry In addition to the copious technical material and the numerous references contained in each chapter the book includes easy to reference appendices on the properties of Si and Ge the generalized Moll Ross relations integral charge control relations and sample SiGe HBT compact model parameters

Transformer-Based Design Techniques for Oscillators and Frequency Dividers Howard Cam Luong,Jun Yin,2015-10-07 This book provides in depth coverage of transformer based design techniques that enable CMOS oscillators and frequency dividers to achieve state of the art performance Design optimization and measured performance of oscillators and frequency dividers for different applications are discussed in detail focusing on not only ultra low supply voltage but also ultra wide frequency tuning range and locking range This book will be an invaluable reference for anyone working or interested in CMOS radio frequency or mm Wave integrated circuits and systems

**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

**Characterization and Optimization of the RF Performances of Analog Components in CMOS and BiCMOs Technologies** Snezana Jenei,2003 IBM Journal of Research and Development ,2003 **Digest** IEEE Antennas and Propagation Society. International Symposium,2004 Proceedings ,2005 **American Book Publishing Record** ,2000-07 Transformers and Inductors for Power Electronics W.G. Hurley,W.H. Wölfle,2013-04-29 Based on the fundamentals of electromagnetics this clear and concise text explains basic and applied principles of transformer and inductor design for power electronic applications It details both the theory and practice of inductors and transformers employed to filter currents store electromagnetic energy provide physical isolation between circuits and perform stepping up and down of DC and AC voltages The authors present a broad range of applications from modern power conversion systems They provide rigorous design guidelines based on a robust methodology for inductor and transformer design They offer real design examples informed by proven and working field examples Key features include emphasis on high frequency design including optimisation of the winding layout and treatment of non sinusoidal waveforms a chapter on planar magnetic with

analytical models and descriptions of the processing technologies analysis of the role of variable inductors and their applications for power factor correction and solar power unique coverage on the measurements of inductance and transformer capacitance as well as tests for core losses at high frequency worked examples in MATLAB end of chapter problems and an accompanying website containing solutions a full set of instructors presentations and copies of all the figures Covering the basics of the magnetic components of power electronic converters this book is a comprehensive reference for students and professional engineers dealing with specialised inductor and transformer design It is especially useful for senior undergraduate and graduate students in electrical engineering and electrical energy systems and engineers working with power supplies and energy conversion systems who want to update their knowledge on a field that has progressed considerably in recent years

**Systems Modeling and Computer Simulation** Naim A. Kheir, 1988 This second edition describes the fundamentals of modelling and simulation of continuous time discrete time discrete event and large scale systems Coverage new to this edition includes a chapter on non linear systems analysis and modelling complementing the treatment of of continuous time and discrete time systems and a chapter on the computer animation and visualization of dynamical systems motion College or university bookstores may order five or more copies at a special student price available on request from Marcel Dekker Inc

*2000 IEEE 31ú Comhdháil Bhliantúil Na Saineolaithe Ar Leictreonaic Chumhachta : Imeachtaí Na Comhdhála* ,2000

**Power Electronics Technology and Applications II** Fred C. Lee, 1997 A sequel to Power Electronics Technology and Applications this text is targeted specifically towards the needs of practicing design engineers The focus is to provide the practicing engineer with up to date technology and emerging applications

**Dissertation Abstracts International** ,2008      ICMTS 2002 ,2002      Electrical & Electronics Abstracts ,1997

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web of jewish parentage rojas received a bachelor s degree in law from the university of salamanca about 1490 he later moved to talavera married practiced law and served briefly as lord mayor the first version of la celestina appeared under the title comedia de calisto y melibea 1499 and contained 16 acts a later version tragicomedia de calisto

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web it is believed that he then settled in the town of talavera de la reina where some historians believe that he was the mayor and where he also got married and had many children fernando de rojas died in 1541 in the same town sometime between the 3rd and 8th of april he was originally buried at the madre de dios convent of talavera de la

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