

## Solution Of Cmos Razavi

Radio Frequency Integrated Circuits and Systems  
CMOS IC Layout  
Data Converters  
Analysis and Design of Analog Integrated Circuits  
CMOS Analog Design Using All-Region MOSFET Modeling  
Microelectronic Circuit Design  
Microelectronics  
Design of Analog CMOS Integrated Circuits  
CMOS PLL Synthesizers: Analysis and Design  
CMOS Voltage References  
The Design of CMOS Radio-Frequency Integrated Circuits  
Electric Circuits  
Power Management Techniques for Integrated Circuit Design  
Digital Integrated Circuit Design  
Analog Integrated Circuit Design  
CMOS RFIC Design Principles  
Mobile and Wireless Communications  
CMOS Digital Integrated Circuits Analysis & Design  
Monolithic Phase-Locked Loops and Clock Recovery Circuits  
Analog Circuit Design  
The gm/ID Methodology, a sizing tool for low-voltage analog CMOS Circuits  
CMOS: MIXED-SIGNAL CIRCUIT DESIGN  
Principles of Data Conversion System Design  
Design of CMOS Phase-Locked Loops  
Low Power RF Circuit Design in Standard CMOS Technology  
CMOS Integrated Circuit Design for Wireless Power Transfer  
CMOS VLSI Design  
Design of Integrated Circuits for Optical Communications  
Fundamentals of Microelectronics  
CMOS (CMOS—CMOS)  
Systematic Design of Analog CMOS Circuits  
ANALOG MOS INTEGRATED CIRCUITS FOR SIGNAL PROCESSING  
CMOS Digital Integrated Circuits  
Analog Design for CMOS VLSI Systems  
Operational Amplifiers  
Fast Techniques for Integrated Circuit Design  
CMOS  
CMOS analog circuit design  
Analog Design Essentials  
CMOS Analog and Mixed-Signal Circuit Design

## Radio Frequency Integrated Circuits and Systems

Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.

## CMOS IC Layout

This advanced text and reference covers the design and implementation of integrated circuits for analog-to-digital and digital-to-analog conversion. It begins with basic concepts and systematically leads the reader to advanced topics, describing design issues and techniques at both circuit and system level. Gain a system-level perspective of data conversion units and their trade-offs with this state-of-the art book. Topics covered include: sampling circuits and architectures, D/A and A/D architectures; comparator and op amp design; calibration techniques; testing and characterization; and more!

## Data Converters

The Fifth Edition of this academically rigorous text provides a comprehensive treatment of analog integrated circuit analysis and design starting from the basics and through current industrial practices. The authors combine bipolar, CMOS and BiCMOS analog integrated-circuit design into a unified treatment that stresses their commonalities and highlights their differences. The comprehensive coverage of the material will provide the student with valuable insights into the relative strengths and weaknesses of these important technologies.

### **Analysis and Design of Analog Integrated Circuits**

This book begins with the premise that energy demands are directing scientists towards ever-greener methods of power management, so highly integrated power control ICs (integrated chip/circuit) are increasingly in demand for further reducing power consumption. A timely and comprehensive reference guide for IC designers dealing with the increasingly widespread demand for integrated low power management Includes new topics such as LED lighting, fast transient response, DVS-tracking and design with advanced technology nodes Leading author (Chen) is an active and renowned contributor to the power management IC design field, and has extensive industry experience Accompanying website includes presentation files with book illustrations, lecture notes, simulation circuits, solution manuals, instructors' manuals, and program downloads

### **CMOS Analog Design Using All-Region MOSFET Modeling**

### **Microelectronic Circuit Design**

The essentials of analog circuit design with a unique all-region MOSFET modeling approach.

### **Microelectronics**

Praise for CMOS: Circuit Design, Layout, and Simulation Revised Second Edition from the Technical Reviewers "A refreshing industrial flavor. Design concepts are presented as they are needed for 'just-in-time' learning. Simulating and designing circuits using SPICE is emphasized with literally hundreds of examples. Very few textbooks contain as much detail as this one. Highly recommended!" --Paul M. Furth, New Mexico State University "This book builds a solid knowledge of CMOS circuit design from the ground up. With coverage of process integration, layout, analog and digital models, noise mechanisms, memory circuits, references, amplifiers, PLLs/DLLs, dynamic circuits, and data converters, the text is an excellent reference for both experienced and novice designers alike." --Tyler J. Gomm, Design Engineer, Micron Technology,

Inc. "The Second Edition builds upon the success of the first with new chapters that cover additional material such as oversampled converters and non-volatile memories. This is becoming the de facto standard textbook to have on every analog and mixed-signal designer's bookshelf." --Joe Walsh, Design Engineer, AMI Semiconductor CMOS circuits from design to implementation CMOS: Circuit Design, Layout, and Simulation, Revised Second Edition covers the practical design of both analog and digital integrated circuits, offering a vital, contemporary view of a wide range of analog/digital circuit blocks, the BSIM model, data converter architectures, and much more. This edition takes a two-path approach to the topics: design techniques are developed for both long- and short-channel CMOS technologies and then compared. The results are multidimensional explanations that allow readers to gain deep insight into the design process. Features include: Updated materials to reflect CMOS technology's movement into nanometer sizes Discussions on phase- and delay-locked loops, mixed-signal circuits, data converters, and circuit noise More than 1,000 figures, 200 examples, and over 500 end-of-chapter problems In-depth coverage of both analog and digital circuit-level design techniques Real-world process parameters and design rules The book's Web site, CMOSedu.com, provides: solutions to the book's problems; additional homework problems without solutions; SPICE simulation examples using HSPICE, LTspice, and WinSpice; layout tools and examples for actually fabricating a chip; and videos to aid learning

### **Design of Analog CMOS Integrated Circuits**

This book, first published in 2004, is an expanded and revised edition of Tom Lee's acclaimed RFIC text.

### **CMOS PLL Synthesizers: Analysis and Design**

CMOS (complementary metal oxide semiconductor) is a key digital integrated circuit technology that is widely used throughout the wireless communications industry. This resource offers guidance on designing CMOS RF integrated circuits. It provides design details on elemental and advanced CMOS RF circuits.

### **CMOS Voltage References**

Featuring an extensive 40 page tutorial introduction, this carefully compiled anthology of 65 of the most important papers on phase-locked loops and clock recovery circuits brings you comprehensive coverage of the field-all in one self-contained volume. You'll gain an understanding of the analysis, design, simulation, and implementation of phase-locked loops and clock recovery circuits in CMOS and bipolar technologies along with valuable insights into the issues and trade-offs associated with phase locked systems for high speed, low power, and low noise.

## **The Design of CMOS Radio-Frequency Integrated Circuits**

### **Electric Circuits**

Mobile and wireless communications applications have a clear impact on improving the humanity wellbeing. From cell phones to wireless internet to home and office devices, most of the applications are converted from wired into wireless communication. Smart and advanced wireless communication environments represent the future technology and evolutionary development step in homes, hospitals, industrial, vehicular and transportation systems. A very appealing research area in these environments has been the wireless ad hoc, sensor and mesh networks. These networks rely on ultra low powered processing nodes that sense surrounding environment temperature, pressure, humidity, motion or chemical hazards, etc. Moreover, the radio frequency (RF) transceiver nodes of such networks require the design of transmitter and receiver equipped with high performance building blocks including antennas, power and low noise amplifiers, mixers and voltage controlled oscillators. Nowadays, the researchers are facing several challenges to design such building blocks while complying with ultra low power consumption, small area and high performance constraints. CMOS technology represents an excellent candidate to facilitate the integration of the whole transceiver on a single chip. However, several challenges have to be tackled while designing and using nanoscale CMOS technologies and require innovative idea from researchers and circuits designers. While major researchers and applications have been focusing on RF wireless communication, optical wireless communication based system has started to draw some attention from researchers for a terrestrial system as well as for aerial and satellite terminals. This renewed interested in optical wireless communications is driven by several advantages such as no licensing requirements policy, no RF radiation hazards, and no need to dig up roads besides its large bandwidth and low power consumption. This second part of the book, *Mobile and Wireless Communications: Key Technologies and Future Applications*, covers the recent development in ad hoc and sensor networks, the implementation of state of the art of wireless transceivers building blocks and recent development on optical wireless communication systems. We hope that this book will be useful for students, researchers and practitioners in their research studies.

### **Power Management Techniques for Integrated Circuit Design**

The purpose of this book is to provide a complete working knowledge of the Complementary Metal-Oxide Semiconductor (CMOS) analog and mixed-signal circuit design, which can be applied for System on Chip (SOC) or Application-Specific Standard Product (ASSP) development. It begins with an introduction to the CMOS analog and mixed-signal circuit design with further coverage of basic devices, such as the Metal-Oxide Semiconductor Field-Effect Transistor (MOSFET) with both long- and short-channel operations, photo devices, fitting ratio, etc. Seven chapters focus on the CMOS analog and mixed-

signal circuit design of amplifiers, low power amplifiers, voltage regulator-reference, data converters, dynamic analog circuits, color and image sensors, and peripheral (oscillators and Input/Output [I/O]) circuits, and Integrated Circuit (IC) layout and packaging. Features: Provides practical knowledge of CMOS analog and mixed-signal circuit design Includes recent research in CMOS color and image sensor technology Discusses sub-blocks of typical analog and mixed-signal IC products Illustrates several design examples of analog circuits together with layout Describes integrating based CMOS color circuit

### **Digital Integrated Circuit Design**

Low Power Consumption is one of the critical issues in the performance of small battery-powered handheld devices. Mobile terminals feature an ever increasing number of wireless communication alternatives including GPS, Bluetooth, GSM, 3G, WiFi or DVB-H. Considering that the total power available for each terminal is limited by the relatively slow increase in battery performance expected in the near future, the need for efficient circuits is now critical. This book presents the basic techniques available to design low power RF CMOS analogue circuits. It gives circuit designers a complete guide of alternatives to optimize power consumption and explains the application of these rules in the most common RF building blocks: LNA, mixers and PLLs. It is set out using practical examples and offers a unique perspective as it targets designers working within the standard CMOS process and all the limitations inherent in these technologies.

### **Analog Integrated Circuit Design**

Analog Circuit Design

### **CMOS RFIC Design Principles**

Thanks to the advance of semiconductor and communication technology, the wireless communication market has been booming in the last two decades. It evolved from simple pagers to emerging third-generation (3G) cellular phones. In the meanwhile, broadband communication market has also gained a rapid growth. As the market always demands hi-performance and low-cost products, circuit designers are seeking hi- integration communication devices in cheap CMOS technology. The phase-locked loop frequency synthesizer is a critical component in communication devices. It works as a local oscillator for frequency translation and channel selection in wireless transceivers and broadband cable tuners. It also plays an important role as the clock synthesizer for data converters in the analog-and-digital signal interface. This book covers the design and analysis of PLL synthesizers. It includes both fundamentals and a review of the state-of-the-art techniques. The transient analysis of the third-order charge-pump PLL reveals its locking behavior accurately. The

behavioral-level simulation of PLL further clarifies its stability limit. Design examples are given to clearly illustrate the design procedure of PLL synthesizers. A complete derivation of reference spurs in the charge-pump PLL is also presented in this book. The in-depth investigation of the digital CA modulator for fractional-N synthesizers provides insightful design guidelines for this important block.

### **Mobile and Wireless Communications**

This book presents state-of-the-art analog and power management IC design techniques for various wireless power transfer (WPT) systems. To create elaborate power management solutions, circuit designers require an in-depth understanding of the characteristics of each converter and regulator in the power chain. This book addresses WPT design issues at both system- and circuit-level, and serves as a handbook offering design insights for research students and engineers in the integrated power electronics area.

### **CMOS Digital Integrated Circuits Analysis & Design**

The fourth edition of CMOS Digital Integrated Circuits: Analysis and Design continues the well-established tradition of the earlier editions by offering the most comprehensive coverage of digital CMOS circuit design, as well as addressing state-of-the-art technology issues highlighted by the widespread use of nanometer-scale CMOS technologies. In this latest edition, virtually all chapters have been re-written, the transistor model equations and device parameters have been revised to reflect the significant changes that must be taken into account for new technology generations, and the material has been reinforced with up-to-date examples.

### **Monolithic Phase-Locked Loops and Clock Recovery Circuits**

CMOS, CMOS, MOS.

### **Analog Circuit Design**

By helping students develop an intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi's Microelectronics retains its hallmark emphasis on analysis by inspection and building students' design intuition, and it incorporates a host of new pedagogical features that make it easier to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific

chapter sections.

### **The gm/ID Methodology, a sizing tool for low-voltage analog CMOS Circuits**

Discover a fresh approach to efficient and insight-driven analog integrated circuit design in nanoscale-CMOS with this hands-on guide. Expert authors present a sizing methodology that employs SPICE-generated lookup tables, enabling close agreement between hand analysis and simulation. This enables the exploration of analog circuit tradeoffs using the gm/ID ratio as a central variable in script-based design flows, and eliminates time-consuming iterations in a circuit simulator. Supported by downloadable MATLAB code, and including over forty detailed worked examples, this book will provide professional analog circuit designers, researchers, and graduate students with the theoretical know-how and practical tools needed to acquire a systematic and re-use oriented design style for analog integrated circuits in modern CMOS.

### **CMOS: MIXED-SIGNAL CIRCUIT DESIGN**

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

### **Principles of Data Conversion System Design**

Fundamentals of Microelectronics, 2nd Edition is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The book's unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success.

### **Design of CMOS Phase-Locked Loops**

"Microelectronic Circuit Design" is known for being a technically excellent text. The new edition has been revised to make the material more motivating and accessible to students while retaining a student-friendly approach. Jaeger has added more pedagogy and an emphasis on design through the use of design examples and design notes. Some pedagogical

elements include chapter opening vignettes, chapter objectives, "Electronics in Action" boxes, a problem solving methodology, and "design note" boxes. The number of examples, including new design examples, has been increased, giving students more opportunity to see problems worked out. Additionally, some of the less fundamental mathematical material has been moved to the ARIS website. In addition this edition comes with a Homework Management System called ARIS, which includes 450 static problems.

### **Low Power RF Circuit Design in Standard CMOS Technology**

Market\_Desc: · Engineers· Managers· Technicians About The Book: The book describes the operating principles of analog MOS integrated circuits and how to design and use such circuits. The initial section explores general properties of analog MOS integrated circuits and the math and physics background required. The remainder of the book is devoted to the design of circuits. It includes such devices as switched-capacitor filters, analog-to-digital and digital-to-analog converters, amplifiers, modulators, oscillators, and others. Tables and numerical design examples clarify the step-by-step processes involved. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

### **CMOS Integrated Circuit Design for Wireless Power Transfer**

### **CMOS VLSI Design**

Operational Amplifiers - Theory and Design is the first book to present a systematic circuit design of operational amplifiers. Containing state-of-the-art material as well as the essentials, the book is written to appeal to both the experienced practitioner and the less initiated circuit designer. It is shown that the topology of all operational amplifiers can be divided into nine main overall configurations. These configurations range from one gain stage up to four or more gain stages. Many famous designs are evaluated in depth. High-frequency compensation techniques are presented for all nine configurations. Special emphasis is placed on low-power low-voltage architectures with rail-to-rail input and output ranges. Operational Amplifiers - Theory and Design also develops on the theme of the design of fully differential operational amplifiers and operational floating amplifiers. In addition, the characterization of operational amplifiers by macromodels and error matrices is presented, together with measurement techniques for their parameters. Carefully structured and enriched by numerous figures, problems and simulation exercises the book is ideal for the purposes of self-study and self-evaluation.

### **Design of Integrated Circuits for Optical Communications**

This book includes basic methodologies, review of basic electrical rules and how they apply, design rules, IC planning, detailed checklists for design review, specific layout design flows, specialized block design, interconnect design, and also additional information on design limitations due to production requirements. \*Practical, hands-on approach to CMOS layout theory and design \*Offers engineers and technicians the training materials they need to stay current in circuit design technology. \*Covers manufacturing processes and their effect on layout and design decisions

### Fundamentals of Microelectronics

IC designers appraise currently MOS transistor geometries and currents to compromise objectives like gain-bandwidth, slew-rate, dynamic range, noise, non-linear distortion, etc. Making optimal choices is a difficult task. How to minimize for instance the power consumption of an operational amplifier without too much penalty regarding area while keeping the gain-bandwidth unaffected in the same time? Moderate inversion yields high gains, but the concomitant area increase adds parasitics that restrict bandwidth. Which methodology to use in order to come across the best compromise(s)? Is synthesis a mixture of design experience combined with cut and tries or is it a constrained multivariate optimization problem, or a mixture? Optimization algorithms are attractive from a system perspective of course, but what about low-voltage low-power circuits, requiring a more physical approach? The connections amid transistor physics and circuits are intricate and their interactions not always easy to describe in terms of existing software packages. The gm/ID synthesis methodology is adapted to CMOS analog circuits for the transconductance over drain current ratio combines most of the ingredients needed in order to determine transistors sizes and DC currents.

### CMOS (A Practical Approach)

A practical overview of CMOS circuit design, this book covers the technology, analysis, and design techniques of voltage reference circuits. The design requirements covered follow modern CMOS processes, with an emphasis on low power, low voltage, and low temperature coefficient voltage reference design. Dedicating a chapter to each stage of the design process, the authors have organized the content to give readers the tools they need to implement the technologies themselves. Readers will gain an understanding of device characteristics, the practical considerations behind circuit topology, and potential problems with each type of circuit. Many design examples are used throughout, most of which have been tested with silicon implementation or employed in real-world products. This ensures that the material presented is relevant to both students studying the topic as well as readers requiring a practical viewpoint. Covers CMOS voltage reference circuit design, from the basic through to advanced topics Provides an overview of basic device physics and different building blocks of voltage reference designs Features real-world examples based on actual silicon implementation Includes analytical exercises, simulation exercises, and silicon layout exercises, giving readers guidance and design

layoutexperience for voltage reference circuits Solution manual available to instructors from the book'scompanion website This book is highly useful for graduate students in VLSI design,as well as practicing analog engineers and IC design professionals.Advanced undergraduates preparing for further study in VLSI willalso find this book a helpful companion text.

### **Systematic Design of Analog CMOS Circuits**

This modern, pedagogic textbook from leading author Behzad Razavi provides a comprehensive and rigorous introduction to CMOS PLL design, featuring intuitive presentation of theoretical concepts, extensive circuit simulations, over 200 worked examples, and 250 end-of-chapter problems. The perfect text for senior undergraduate and graduate students.

### **ANALOG MOS INTEGRATED CIRCUITS FOR SIGNAL PROCESSING**

Do you want to deepen your understanding of complex systems and design integrated circuits more quickly? Learn how with this step-by-step guide that shows, from first principles, how to employ estimation techniques to analyze and solve complex problems in IC design using a simplified modeling approach. Applications are richly illustrated using real-world examples from across IC design, from simple circuit theory, to the electromagnetic effects and high frequency design, and systems such as data converters and phase-locked loops. Basic concepts like inductance and capacitance are related to one other and other RF phenomena inside a modern chip, enhancing understanding without the need for simulators. Use the easy-to-follow models presented to start designing your own products, from inductors and amplifiers to more complex systems. Whether you are an early-career professional or researcher, graduate student, or established IC engineer looking to reduce your reliance on commercial software packages, this is essential reading.

### **CMOS Digital Integrated Circuits**

This undergraduate textbook for electrical and computer engineering students is dedicated solely to digital CMOS electronics. It covers many of the topics of graduate level textbooks, but in an introductory style specifically crafted (and course tested) for undergraduates. Students will not need a prerequisite in analog electronics, allowing instructors flexibility in course scheduling. This book blends the academic and industrial experience of the authors to define a base of electronics instruction for the CMOS chip industry. CMOS Digital Integrated Circuits: A First Course teaches the fundamentals of modern CMOS technology by focusing on central themes and avoiding excessive details. Extensive examples, self-exercises, and end-of chapter problems assist in teaching the current practices of industry and subjects taught by graduate courses in microelectronics. Computer engineering curriculums can remove the analog electronics prerequisite altogether when adopting this book. Key Features CMOS technology written specifically for (and tested by) undergraduates. Equal treatment

to both types of MOSFET transistors that make up computer circuits. Power properties of logic circuits. Physical and electrical properties of metals. Introduction of timing circuit electronics. Introduction of layout. Real-world examples and problem sets.

### **Analog Design for CMOS VLSI Systems**

"The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design. This book deals with the design of high-speed integrated circuits for optical communication transceivers. Building upon a detailed understanding of optical devices, the book describes the analysis and design of critical building blocks, such as transimpedance and limiting amplifiers, laser drivers, phase-locked loops, oscillators, clock and data recovery circuits, and multiplexers. This second edition of this best selling textbook has been updated to provide information on the latest developments in the field"--

### **Operational Amplifiers**

Special Features: · Written by the author of the best-seller, CMOS: Circuit Design, Layout, and Simulation · Fills a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design from a circuit designer's point of view · Presents more advance topics, and will be an excellent companion to the first volume About The Book: This book will fill a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design. There are no competitors in this area. Mixed-signal design is performed in industry by a select few gurus . The techniques can be found in hard-to-digest technical papers.

### **Fast Techniques for Integrated Circuit Design**

- Applicable for bookstore catalogue

## **CMOS**

### **CMOS analog circuit design**

This unique book contains all topics of importance to the analog designer which are essential to obtain sufficient insights to do a thorough job. The book starts with elementary stages in building up operational amplifiers. The synthesis of opamps is

covered in great detail. Many examples are included, operating at low supply voltages. Chapters on noise, distortion, filters, ADC/DACs and oscillators follow. These are all based on the extensive amount of teaching that the author has carried out world-wide.

### **Analog Design Essentials**

Equips students with essential industry-relevant knowledge through in-depth explanations, practical applications, examples, and exercises.

### **CMOS Analog and Mixed-Signal Circuit Design**

This book is the first graduate-level textbook presenting a comprehensive treatment of Data Converters. The advancement of digital electronics urged the availability of a still missing support for teaching and self-learning analog-digital interfaces at many levels: the specification, the conversion methods and architectures, the circuit design and the testing. This book, after the necessary study of the background theoretical elements, covers aspects and provide elements for a deep and comprehensive knowledge. The breath and the level of details of topics is enhanced by introductory material in each chapter and the use of many examples, most of them in the form of computer behavioral simulations. The examples and the end-of-chapter problems help in understanding and favor self-practice using tools that are effective for training and for design activity. Data Converters is a textbook that is also essential for engineering professionals as it was written for responding to a shortage of organically organized material on the topic. The book assumes a solid background in analog and digital circuits as well as a working knowledge of simulation tools for circuit and behavioral analysis. A background on statistical analysis is also helpful, though not strictly necessary. Coverage of all the basic elements essential for a clear understanding of sampling, quantization, noise in sampled-data systems and mathematical tools for sampled-data linear systems Comprehensive definition of the parameters used to specify data converters and necessary for understanding product data sheets Coverage of all the architectures used in Nyquist-rate data converters and detailed study of features, limits and design techniques Detailed study of oversampled and Sigma-Delta converters with simulation examples and use of spectra and histograms for a clear understanding of features and limit if the noise shaping Coverage of digital correction and calibration techniques for enhancing performances Use of theory and intuitive views to explain circuits and systems operation and limits Coverage of testing methods and description of the data processing used for testing and characterization Extensive use of Simulink and Matlab in examples and problem sets to assist reader comprehension and favor deeper study

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