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ACKNOWLEDGMENTS ABOUT THE AUTHOR CHAPTER 1 INTRODUCTION TO RF AND WIRELESS TECHNOLOGY 1.1 A Wireless World 1.2 RF Design Is Challenging 1.3 The Big Picture References CHAPTER 2 BASIC CONCEPTS IN RF DESIGN 2.1 General Considerations 2.1.1 Units in RF Design 2.1.2 Time Variance

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**PREFACE TO THE SECOND EDITION** In the 14 years since the first edition of this book, RF IC design has experienced a dramatic metamorphosis. Innovations in transceiver architectures, circuit topologies, and device structures have led to highly-integrated “radios” that span a broad spectrum of applica- tions.

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In my opinion, it might be inappropriate to call it "2nd edition" as this is a completely new book with vast improvements from the 1st edition. We have experienced a rapid growth of RF design within last decade, and this book covers most of the fundamentals of RF circuit/system design techniques to deal with today's challenges.

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## EECS 142 Homepage

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## EECS 242 Homepage

Engineers that need to understand the “RF language” and gain working knowledge of critical RF concepts will benefit from taking this course. Students in this class will learn the basic RF tools and design principles. By the end of this class students will know important RF concepts and how these are related to the design of practical RF blocks.

If you're an electrical engineer, this book brings together all the RF design principles you need to know to participate in the wireless revolution. It covers a wide range of issues relevant to today's advanced RF integrated circuits and systems - the technology at the heart of wireless phones, pagers, home satellite networks, cable modems, and other revolutionary products. RF Microelectronics begins with a thorough introduction to the fundamental concepts of RF design, including nonlinearity, interference, and noise. It then moves to the system level, introducing modulation and multiple access techniques and reviewing current wireless standards such as CDMA, TDMA, AMPS, and GSM. Next, the book describes transceiver architectures, emphasizing their advantages and drawbacks with respect to monolithic integration and presenting case studies for each.



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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.

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 books 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.

Applicable for bookstore catalogue

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

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fibres, and 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.

The Acclaimed RF Microelectronics Best-Seller, Expanded and Updated for the Newest Architectures, Circuits, and Devices Wireless communication has become almost as ubiquitous as electricity, but RF design continues to challenge engineers and researchers. In the 15 years since the first edition of this classic text, the demand for higher performance has led to an explosive growth of RF design techniques. In RF Microelectronics, Second Edition, Behzad Razavi systematically teaches the fundamentals as well as the state-of-the-art developments in the analysis and design of RF circuits and transceivers. Razavi has written the second edition to reflect today's RF microelectronics, covering key topics in far greater detail. At nearly three times the length of the first edition, the second edition is an indispensable tome for both students and practicing engineers. With his lucid prose, Razavi now Offers a stronger tutorial focus along with hundreds of examples and problems Teaches design as well as analysis with the aid of step-by-step design procedures and a chapter dedicated to the design of a dual-band WiFi

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Transceiver Describes new design paradigms and analysis techniques for circuits such as low-noise amplifiers, mixers, oscillators, and frequency dividers This edition's extensive coverage includes brand new chapters on mixers, passive devices, integer-N synthesizers, and fractional-N synthesizers. Razavi's teachings culminate in a new chapter that begins with WiFi's radio specifications and, step by step, designs the transceiver at the transistor level. Coverage includes Core RF principles, including noise and nonlinearity, with ties to analog design, microwave theory, and communication systems An intuitive treatment of modulation theory and wireless standards from the standpoint of the RF IC designer Transceiver architectures such as heterodyne, sliding-IF, directconversion, image-reject, and low-IF topologies. Low-noise amplifiers, including cascode common-gate and commonsource topologies, noise-cancelling schemes, and reactance-cancelling configurations Passive and active mixers, including their gain and noise analysis and new mixer topologies Voltage-controlled oscillators, phase noise mechanisms, and various VCO topologies dealing with noisepower-tuning trade-offs All-new coverage of passive devices, such as integrated inductors, MOS varactors, and transformers A chapter on the analysis and design of phase-locked loops with emphasis on low ...

For upper-level Electrical Engineering introductory courses in RF Circuit Design and analog integratedcircuits.This practical and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. \* Provides

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MATLAB routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors as part of the Smith Chart.

- \* Allows students to implement these software tools on their own PC. All m-files will be included on a bound in CD-ROM.
- \* Presents RF Amplifier Designs, including small and large signal designs, narrow versus broad band, low noise, and many others.
- \* Provides students with useful broad-based knowledge of common amplifier designs used in the industry.
- \* Discusses Matching Networks, such as T and P matching networks and single and double stub matching. It also includes Discrete and Microstrip Line matching techniques with computer simulations...\*
- \* Presents Scattering parameters such as realistic listings of S-parameters for transistors and transmission line.
- \* Highlights practical use of S-parameters in circuit design and performance evaluation. resistor, capacitor, and inductor networks. It also includes simulations in MATLAB to provide graphical display of circuit behavior and performance analysis.
- \* Introduces the Smith Chart as a design tool to monitor electric behavior of circuits.
- \* Introduces the generic forms of Oscillators and Mixers, including negative resistance condition, fixed-frequency, and YIG-tuned designs.
- \* Explains the most common oscillator designs used in many RF systems.
- \* Provides an overview of common filter types, including low, high, bandpass, Butterworth, and Chebyshev filters.
- \* Provides design tools to enable students to develop a host of practically realizable filters.
- \* Discusses the high-frequency behavior of common circuit components, including the behavior of resistors, capacitors, and inductors.
- \* Helps students understand the difference of

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Low versus high frequency responses. \* Introduces the theory of distributed parameters through a discussion on Transmission Lines. This includes line parameters, sources and load terminations, and voltage and current waves. circuits. \* Analyzes active/passive RF circuits through various network description models, especially the two-port network. This discussion also covers impedance, admittance, ABCD, h-parameter networks, and interrelations. \* Includes a number of important pedagogical features--Intersperses examples throughout each chapter, and includes self-written MATLAB routines and circuit simulations by a commercial RF software package. \* Assists students by clarifying and explaining the theoretical developments.

Essential reading for experts in the field of RF circuit design and engineers needing a good reference. This book provides complete design procedures for multiple-pole Butterworth, Chebyshev, and Bessel filters. It also covers capacitors, inductors, and other components with their behavior at RF frequencies discussed in detail. Provides complete design procedures for multiple-pole Butterworth, Chebyshev, and Bessel filters Covers capacitors, inductors, and other components with their behavior at RF frequencies discussed in detail

With the exponential growth of the number of Internet nodes, the volume of the data transported on the backbone has increased with the same trend. The load of the global Internet backbone will soon increase to tens of terabits per second. This

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indicates that the backbone bandwidth requirements will increase by a factor of 50 to 100 every seven years. Transportation of such high volumes of data requires suitable media with low loss and high bandwidth. Among the available transmission media, optical fibers achieve the best performance in terms of loss and bandwidth. High-speed data can be transported over hundreds of kilometers of single-mode fiber without significant loss in signal integrity. These fibers progressively benefit from reduction of cost and improvement of performance. Meanwhile, the electronic interfaces used in an optical network are not capable of exploiting the ultimate bandwidth of the fiber, limiting the throughput of the network. Different solutions at both the system and the circuit levels have been proposed to increase the data rate of the backbone. System-level solutions are based on the utilization of wave-division multiplexing (WDM), using different colors of light to transmit several sequences simultaneously. In parallel with that, a great deal of effort has been put into increasing the operating rate of the electronic transceivers using highly-developed fabrication processes and novel circuit techniques.

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

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