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engineers and managers who work in RF circuit design and

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for courses in electrical or electronic engineering. Author Bios
RICHARD CHI-HSI LI has more than twenty years experience
with RF circuit design and has worked for companies such as
Motorola, Texas Instruments, and RCA.

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incorporated into everything that transmits or receives a radio wave, such as mobile ...

RF Circuit Design, Second Edition | Richard Chi Hsi Li ...

RF Circuit Design, Second Edition is an ideal book for engineers and managers who work in RF circuit design and for courses in electrical or electronic engineering. About the Author RICHARD CHI-HSI LI has more than twenty years experience with RF circuit design and has worked for companies such as Motorola, Texas Instruments, and RCA.

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The Second Edition introduces RF design tools such as the Smith Chart, dual port networks, S-parameters, and provides extensive coverage of RF filter design, matching networks, active and passive device modeling, narrow and broadband amplifiers, mixers, and oscillators.

RF Circuit Design: Theory & Applications, 2nd Edition

Chapter 8: This chapter covers a modern approach on RF

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front ends. Explaining briefly how demodulation works, superheterodyne receivers, and the parts of a common RF front end, again, in a block diagram level rather than in a circuit level.

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Summarizes the schemes and technologies in RF circuit design, describes the basic parameters of an RF system and the fundamentals of RF system design, and presents an introduction of the individual RF circuit block design. Forming the backbone of today's mobile and satellite communications

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networks, radio frequency (RF) components and circuits are incorporated into everything that transmits or receives a radio wave, such as mobile phones, radio, WiFi, and walkie talkies. RF Circuit Design, Second Edition immerses practicing and aspiring industry professionals in the complex world of RF design. Completely restructured and reorganized with new content, end-of-chapter exercises, illustrations, and an appendix, the book presents integral information in three complete sections: Part One explains the different methodologies between RF and digital circuit design and covers voltage and power transportation, impedance matching in narrow-band case and wide-band case, gain of a raw device, measurement, and grounding. It also goes over equipotentiality and current coupling on ground surface, as

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well as layout and packaging, manufacturability of product design, and radio frequency integrated circuit (RFIC). Part Two includes content on the main parameters and system analysis in RF circuit design, the fundamentals of differential pair and common-mode rejection ratio (CMRR), Balun, and system-on-a-chip (SOC). Part Three covers low-noise amplifier (LNA), power amplifier (PA), voltage-controlled oscillator (VCO), mixers, and tunable filters. RF Circuit Design, Second Edition is an ideal book for engineers and managers who work in RF circuit design and for courses in electrical or electronic engineering.

A much-needed, up-to-date guide to the rapidly growing area of RF circuit design, this book walks readers through a whole

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range of new and improved techniques for the analysis and design of receiver and transmitter circuits, illustrating them through examples from modern-day communications systems. The application of MMIC to RF design is also discussed.

This newly revised and expanded edition of the 2003 Artech House classic, Radio Frequency Integrated Circuit Design, serves as an up-to-date, practical reference for complete RFIC know-how. The second edition includes numerous updates, including greater coverage of CMOS PA design, RFIC design with on-chip components, and more worked examples with simulation results. By emphasizing working designs, this book practically transports you into the

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authors own RFIC lab so you can fully understand the function of each design detailed in this book. Among the RFIC designs examined are RF integrated LC-based filters, VCO automatic amplitude control loops, and fully integrated transformer-based circuits, as well as image reject mixers and power amplifiers. If you are new to RFIC design, you can benefit from the introduction to basic theory so you can quickly come up to speed on how RFICs perform and work together in a communications device. A thorough examination of RFIC technology guides you in knowing when RFICs are the right choice for designing a communication device. This leading-edge resource is packed with over 1,000 equations and more than 435 illustrations that support key topics."

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A unique, state-of-the-art guide to wireless integrated circuit design. With wireless technology rapidly exploding, there is a growing need for circuit design information specific to wireless applications. Presenting a single-source guidebook to this dynamic area, industry expert Ulrich Rohde and writer David Newkirk provide researchers and engineers with a complete set of modeling, design, and implementation tools for tackling even the newest IC technologies. They emphasize practical design solutions for high-performance devices and circuitry, incorporating ample examples of novel and clever circuits from high-profile companies. They also provide excellent appendices containing working models and CAD-based applications. RF/Microwave Circuit Design for Wireless Applications offers: *

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For upper-level Electrical Engineering introductory courses in RF Circuit Design and analog integrated circuits. This practical

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and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. *

Provides 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

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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

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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 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,

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and includes self-written MATLAB routines and circuit simulations by a commercial RF software package. * Assists students by clarifying and explaining the theoretical developments.

Aimed at senior undergraduate and first-year graduate Electrical Engineering courses in RF circuit design with an emphasis on analog integrated circuits, this text covers all important RF designs - with a focus on methodology fundamentals and discussion of theoretical concepts.

This is a rigorous tutorial on radio frequency and microwave power amplifier design, teaching the circuit design techniques that form the microelectronic backbones of modern wireless

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communications systems. Suitable for self-study, corporate training, or Senior/Graduate classroom use, the book combines analytical calculations and computer-aided design techniques to arm electronic engineers with every possible method to improve their designs and shorten their design time cycles.

This updated and greatly expanded second edition of the popular text RF Circuit Design: Theory and Applications provides a comprehensive coverage of the fundamental concepts of high-frequency circuit analysis and design. Each of the 10 chapters includes a Practically Speaking section in which the authors present realistic circuit examples. These carefully worked out circuits enable the reader to directly

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apply the theoretical aspects developed in this text. The text is self-contained and requires only a minimum amount of analog circuit design and electromagnetics; it is well-suited for junior and senior-level undergraduates as well as practicing engineers.

The products that drive the wireless communication industry, such as cell phones and pagers, employ circuits that operate at radio and microwave frequencies. Following on from a highly successful first edition, the second edition provides readers with a detailed introduction to RF and microwave circuits. Throughout, examples from real-world devices and engineering problems are used to great effect to illustrate circuit concepts. * Takes a top-down approach, describing

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circuits in the overall context of communication systems. *
Presents expanded coverage of waveguides and FT mixers. *
Discusses new areas such as oscillators design and digital
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