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Combiners, Couplers, Transformers, and Magnetic Materials

Handbook of RF and Microwave Power Amplifiers

Microwave and RF filters

Newnes Radio and RF Engineering Pocket Book

Principles and Applications of RF/Microwave in Healthcare and Biosensing

Classic Works in RF Engineering

RF Circuit Design

Introduction to Radio Frequency Design

Radio-Frequency Electronics

Designing Bipolar Transistor Radio Frequency Integrated Circuits

Principles of RF and Microwave Design
Classic Works in RF Engineering
Fundamentals of Wireless Communication
An Introduction to RF and Microwave Design and Computer Simulation
Communications Engineering Desk Reference
Design of RF and Microwave Amplifiers and Oscillators
RF and Microwave Transmitter Design
Electrical Engineering: Know It All
Dielectrics and Waves
RF Engineering for Wireless Networks
Distributed Power Amplifiers for RF and Microwave Communications
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Circuits and Applications
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University Press
RF and Microwave Transmitter Design is
unique in its coverage of both historical
transmitter design and cutting edge
technologies. This text explores the

results of well-known and new theoretical analyses, while informing readers of modern radio transmitters' practical designs and their components. Jam-packed with information, this book broadcasts and streamlines the author's considerable experience in RF and microwave design and development. Elsevier

The growing interest in commercial RF applications and high-frequency engineering has triggered a scramble for fundamental design and analysis information. This expertly compiled resource gives microwave engineers instant, one-stop access to a vast range of essential source material in a single convenient volume.

Newnes Radio and RF Engineering
Pocket Book Artech House Publishers

Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume

includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Principles and Applications of RF/Microwave in Healthcare and Biosensing Artech House

This highly practical and convenient book is the most comprehensive

resource on microwave and RF filter theory, design, analysis, and applications ever compiled. A perfect companion to the Artech House 2006 bestseller, *Classic Works in RF Engineering*, this new volume collects 50 classic, hard-to-find papers from the 1950s to 2007 on critical topics in the field—from aperture-coupled filters to zolotarev lowpass filters and everything in between. Moreover, this invaluable collection includes design procedures, formulas, examples, and performance data to help you tackle your challenging projects with speed and efficiency. Including insightful introductions from leading authority and editor, Ralph Levy, each paper brings you definitive project-ready guidance including theoretical background, applications, selection criteria, design

steps, calculations, examples, and input on filter components like capacitors, resistors, and inductors. The book includes over 100 diagrams and schematics that help clarify the material at every stage, along with a wealth of problem-solving tips from the top innovators in the field. Whether you need details on combline, resonator, waveguide, or bandstop filters, this one-of-a-kind volume saves you countless hours searching the literature.

Classic Works in RF Engineering Newnes
Based on familiar circuit theory and basic physics, this book serves as an invaluable reference for both analog and digital engineers alike. For those who work with analog RF, this book is a must-have resource. With computers and networking equipment of the 21st

century running at such high frequencies, it is now crucial for digital designers to understand electromagnetic fields, radiation and transmission lines. This knowledge is necessary for maintaining signal integrity and achieving EMC compliance. Since many digital designers are lacking in analog design skills, let alone electromagnetics, an easy-to-read but informative book on electromagnetic topics should be considered a welcome addition to their professional libraries. Covers topics using conceptual explanations and over 150 lucid figures, in place of complex mathematics Demystifies antennas, waveguides, and transmission line phenomena Provides the foundation necessary to thoroughly understand signal integrity issues associated with

high-speed digital design

RF Circuit Design Artech House

A one-stop Desk Reference, for R&D engineers involved in communications engineering; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material covers a wide scope of topics including voice, computer, facsimile, video, and multimedia data technologies * A fully searchable Mega Reference Ebook, providing all the essential material needed by Communications Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material,

including over 1,500 pages not included in the print edition

Introduction to Radio Frequency Design Macmillan International Higher Education Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material

includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Radio-Frequency Electronics John Wiley & Sons

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

Designing Bipolar Transistor Radio Frequency Integrated Circuits Academic Press

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

Principles of RF and Microwave Design John Wiley & Sons

The fundamental methods of radio frequency design using mathematics to develop intuition for RF circuits and systems are explained here with an emphasis on applications of simple

circuit models. The book prepares readers to actually design HF, VHF and UHF equipment.

Classic Works in RF Engineering Artech House

"This book describes these new technologies (circuit design and software-oriented approaches) in all aspects of radio transmitter design including wireless telecommunication, satellite, radar, military and other specific applications"--Provided by publisher.

Fundamentals of Wireless Communication McGraw-Hill Education
Finally, here is a single volume containing all of the engineering information needed to successfully design and implement any type of wireless network! Author Dan Dobkin

covers every aspect of RF engineering necessary for wireless networks. He begins with a review of essential math and electromagnetic theory followed by thorough discussions of multiplexing, modulation types, bandwidth, link budgets, network concepts, radio system architectures, RF amplifiers, mixers and frequency conversion, filters, single-chip radio systems, antenna theory and designs, signal propagation, as well as planning and implementing wireless networks for both indoor and outdoor environments. The appendices contain such vital data as U.S., European, and Japanese technical and regulatory standards for wireless networks, measurements in wireless networks, reflection and matching of transmission lines, determining power density, and

much more. No matter what type of wireless network you design—Bluetooth, UWB, or even metropolitan area network (MAN)—this book is the one reference you can't do without! The A-to-Z guide to wireless network engineering—covers everything from basic electromagnetic theory to modulation techniques to network planning and implementation! Engineering and design principles covered are applicable to any type of wireless network, including 802.11, 802.16, 802.20, and Bluetooth. Discusses state-of-the-art modulation techniques such as ultra wideband (UWB) and orthogonal frequency-division multiplexing (OFDM).
 Classic Works in RF
 Engineering Combiners, Couplers, Transformers, and Magnetic Materials

This newly revised edition offers a comprehensive and current treatment of the subject and includes expanded derivations and problem sets, helping to make the material even more accessible and easier to master.

An Introduction to RF and Microwave Design and Computer Simulation Artech House

This practical resource offers a thorough examination of RF transceiver design for MIMO communications. Offering a practical view on MIMO wireless systems, this book extends fundamental concepts on classic wireless transceiver design techniques to MIMO transceivers. This helps reader gain a very comprehensive understanding of the subject. This in-depth volume describes many theoretical and implementation

challenges on MIMO transceivers and provides the practical solutions for these issues. This comprehensive book provides thorough descriptions of MIMO theoretical concepts, MIMO single carrier and OFDM modulation, RF transceiver design concepts, power amplifier, MIMO transmitter design techniques and their RF impairments, MIMO receiver design methods, RF impairments study including nonlinearity, DC-offset, I/Q imbalance and phase noise and their compensation in OFDM and MIMO techniques. In addition, it provides the most practical techniques to realize RF front-ends in MIMO systems. This book is supported with many design equations and illustrations. The first book dedicated to RF Transceiver design for MIMO systems, this volume serves as a

current, one-stop guide offering you cost-effective solutions for your challenging projects in the field. *Communications Engineering Desk Reference* Cambridge University Press This new resource presents readers with all relevant information and comprehensive design methodology of wideband amplifiers. This book specifically focuses on distributed amplifiers and their main components, and presents numerous RF and microwave applications including well-known historical and recent architectures, theoretical approaches, circuit simulation, and practical implementation techniques. A great resource for practicing designers and engineers, this book contains numerous well-known and novel practical circuits,

architectures, and theoretical approaches with detailed description of their operational principles.

Design of RF and Microwave Amplifiers and Oscillators John Wiley & Sons

This comprehensive resource provides a thorough introduction to the principles of electronic circuits operating in the radio, microwave, and millimeter-wave frequency ranges. The book highlights the fundamental physical laws of classical electromagnetics using a foundation of Maxwell's equations to give insight into the operating principles of circuit elements of all kinds, from lumped elements to transmission lines, waveguides, optical fibers, and quasi-optical structures. Standard passive system components like filters, splitters, couplers, hybrids, baluns, and antennas

are explained to acclimate the reader to considering multiple technological solutions for common design problems. A basic overview of active circuit designs, such as amplifiers, mixers, and multipliers is also provided, along with discussion of the performance characteristics of electronic systems, including noise and linearity. Emphasis is placed on visualization and understanding of how and why electronic circuits of all frequencies are built and operate the way they do. Readers learn how to match an amplifier for optimum noise performance over the broadest bandwidth with the fewest number of elements and how to visualize the coupling of various modes in a mixed waveguide-type structure and avoid resonances due to trapped, higher-order

modes. The book provides the tools needed to design and optimize a launcher from microstrip into waveguide, and whether the best characteristics can be achieved by incorporating matching elements in the microstrip section, the waveguide section, or both. Packed with references and examples, readers learn not only how to do the math but what the math means.

RF and Microwave Transmitter Design CRC Press

The main purpose of this book is to make available the research on radio-frequency that was originally published in the 1940s but is still relevant today and difficult to find. It focuses on passive signal processing components, namely impedance conversion and power splitting/combining, magnetic materials

and RF transformers.

Electrical Engineering: Know It All

Springer Science & Business Media

Antennas systems play a critical role in modern electronic warfare communications and radar. Today's EW engineers need to have a solid understanding of the design principles of this technology and how antenna systems are used in the field. This comprehensive book serves as a one-stop resource for practical EW antenna system know-how. Supported with over 700 illustrations and nearly 1,700 equations, this authoritative reference offers professionals detailed explanations of all the important foundations and aspects of this technology. Moreover, engineers get an in-depth treatment of a wide range of

antenna system applications. The book presents the key characteristics of each type of antenna, including dipoles, monopoles, loops, arrays, horns, and

patches. Practitioners also find valuable discussions on the limitations of antennas system performance in EW applications.

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