
Rfsim99 Tutorial

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Computer-aided Design of Microwave Circuits
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The Hobbyist's Guide to the RTL-SDR
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Theory and Phenomena of Metamaterials
International Microwave Handbook
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Electronic Principles
Network Scattering Parameters
Headaches in Women
The ARRL Antenna Book
The Art of Electronics Student Manual
Build Your Own Test Equipment
Troubleshooting Analog Circuits
365 Ways to Live Cheap
The Radio Amateur's Handbook
Handbook of Filter Synthesis
RFID

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Stripline Circuit Design Artech House Publishers

Electronics Engineer's Reference Book, Sixth Edition is a five-part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems. Part II covers physical phenomena, such as electricity, light, and radiation, often met with in electronic systems. Part III contains chapters on basic electronic components and materials, the building blocks of any electronic design. Part IV highlights electronic circuit design and instrumentation. The last part shows the application areas of electronics such as radar and computers.

Probability, Statistics and Random Processes John Wiley & Sons

The premiere volume includes articles on a multiband portable, quads and loops, baluns, the Smith Chart, and more.

Op Amps for Everyone Cambridge University Press

Troubleshooting Analog Circuits is a guidebook for solving product or process related problems in analog circuits. The book also provides advice in selecting equipment, preventing problems, and general tips. The coverage of the book includes the philosophy of troubleshooting; the modes of failure of various components; and preventive measures. The text also deals with the active components of analog circuits, including diodes and rectifiers, optically coupled devices, solar cells, and batteries. The book will be of great use to both students and practitioners of electronics engineering. Other professionals dealing with electronics will also benefit from the text, such as electric technicians.

Microwave Circuit Design Using Linear and Nonlinear Techniques Elsevier

This book is about tips and tutorials that show you how to get the most out of your RTL-SDR dongle. Most projects described in this book are also compatible with other wideband SDRs such as the HackRF, Airspy and SDRPlay RSP.

Making Printed Circuit Boards McGraw-Hill Education TAB

Multimedia Signal Processing is a comprehensive and accessible text to the theory and applications of digital signal processing (DSP). The applications of DSP are pervasive and include multimedia systems, cellular communication, adaptive network management, radar, pattern recognition, medical signal processing, financial data forecasting, artificial intelligence, decision making, control systems and search engines. This book is organised in to three major parts making it a coherent and structured presentation of the theory and applications of digital signal processing. A range of important topics are covered in basic signal processing, model-based statistical signal processing and their applications. Part 1: Basic Digital Signal Processing gives an introduction to the topic, discussing sampling and quantization, Fourier analysis and synthesis, Z-transform, and digital filters. Part 2: Model-based Signal Processing covers probability and information models, Bayesian inference, Wiener filter, adaptive filters, linear prediction hidden Markov models and independent

component analysis. Part 3: Applications of Signal Processing in Speech, Music and Telecommunications explains the topics of speech and music processing, echo cancellation, deconvolution and channel equalization, and mobile communication signal processing. Covers music signal processing, explains the anatomy and psychoacoustics of hearing and the design of MP3 music coder Examines speech processing technology including speech models, speech coding for mobile phones and speech recognition Covers single-input and multiple-inputs denoising methods, bandwidth extension and the recovery of lost speech packets in applications such as voice over IP (VoIP) Illustrated throughout, including numerous solved problems, Matlab experiments and demonstrations Companion website features Matlab and C++ programs with electronic copies of all figures. This book is ideal for researchers, postgraduates and senior undergraduates in the fields of digital signal processing, telecommunications and statistical data analysis. It will also be a valuable text to professional engineers in telecommunications and audio and signal processing industries. *Design of Amplifiers and Oscillators by the S-parameter Method* Artech House Publishers Studies electronic components in circuits.

Computer-aided Design of Microwave Circuits McGraw-Hill Companies

Network scattering parameters are powerful tools for the analysis and design of high frequency and microwave networks. A comprehensive review of network scattering parameters is given with detailed discussion of their application in the analysis of stability, input and output reflection coefficients, power gains and other network parameters. Generalised scattering parameters are introduced in later chapters. The aim of this book is to give a thorough working knowledge of scattering parameters and their application in circuit analysis and design. To this end numerous illustrative examples are given in each chapter. The book should prove to be a useful companion to practicing engineers, as well as, to students and teachers in the field of HF, microwaves and optics.

The ARRL Antenna Compendium CRC Press

Handbook of Filter Synthesis, originally published in 1967 is the classic reference for continuous time filter design. The plots of filter behaviour for different designs, such as ripple and group delay, make this book invaluable. The discussion of how to synthesize a bandpass, bandpass, or bandstop filter from a lowpass prototype is also very useful.

Inside the Vacuum Tube World Scientific

Theory and Phenomena of Metamaterials offers an in-depth look at the theoretical background and basic properties of electromagnetic artificial materials, often called metamaterials. A volume in the Metamaterials Handbook, this book provides a comprehensive guide to working with metamaterials using topics presented in a concise review format along with numerous references. With contributions from leading researchers, this text covers all areas where artificial materials have been developed. Each chapter in the text features a concluding summary as well as various cross references to address a wide range of disciplines in a single volume.

The Day After Roswell John Wiley & Sons

Use cold water for most clothes washing and save up to \$63 a year. Minimize your carload and

reduce your gas mileage by as much as 5 percent. Invest in a deep freezer and fill it up with meat discounted at 30 percent or more. Take a look at your life and you'll realize that there's almost always a way to make do on less. This book offers up a bevy of ways to cut down on costs and still enjoy a satisfying lifestyle in any situation. From practicing good gas conservation habits to learning to love leftovers, this book will help every aspiring penny pincher stop the unnecessary spending and find the fun in frugality!

Electronics Resources Springer Science & Business Media

Since 1947, the mysterious crash of an unidentified aircraft at Roswell, New Mexico, has fueled a firestorm of speculation and controversy with no conclusive evidence of its extraterrestrial origin -- until now. Colonel Philip J. Corso (Ret.), a member of President Eisenhower's National Security Council and former head of the Foreign Technology Desk at the U.S. Army's Research & Development department, has come forward to tell the whole explosive story. Backed by documents newly declassified through the Freedom of Information Act, Colonel Corso reveals for the first time his personal stewardship of alien artifacts from the crash, and discloses the U.S. government's astonishing role in the Roswell incident: what was found, the cover-up, and how these alien artifacts changed the course of 20th century history.

Electromagnetic Waves in Stratified Media American Radio Relay League (ARRL)

This book is dedicated to Prof. Dr. Heinz Gerhäuser on the occasion of his retirement both from the position of Executive Director of the Fraunhofer Institute for Integrated Circuits IIS and from the Endowed Chair of Information Technologies with a Focus on Communication Electronics (LIKE) at the Friedrich-Alexander-Universität Erlangen-Nürnberg. Heinz Gerhäuser's vision and entrepreneurial spirit have made the Fraunhofer IIS one of the most successful and renowned German research institutions. He has been Director of the Fraunhofer IIS since 1993, and under his leadership it has grown to become the largest of Germany's 60 Fraunhofer Institutes, a position it retains to this day, currently employing over 730 staff. Likely his most important scientific as well as application-related contribution was his pivotal role in the development of the mp3 format, which would later become a worldwide success. The contributions to this Festschrift were written by both Fraunhofer IIS staff and external project team members in appreciation of Prof. Dr. Gerhäuser's lifetime academic achievements and his inspiring leadership at the Fraunhofer IIS. The papers reflect the broad spectrum of the institute's research activities and are grouped into sections on circuits, information systems, visual computing, and audio and multimedia. They provide academic and industrial researchers in fields like signal processing, sensor networks, microelectronics, and integrated circuits with an up-to-date overview of research results that have a huge potential for cutting-edge industrial applications.

Microelectronic Systems Createspace Independent Publishing Platform

Gain fast access to design information required for any RF communication project using high-frequency circuits and systems with this bestseller. It contains measurement methods, system calculations, statistical procedures, and actual circuit and measurement examples that help you shorten design cycles, improve quality, and reduce design risks. Augmented with 400 equations and 210 figures, the book is an ideal reference for product designers and consultants in the RF and wireless communications industry and an outstanding learning tool for classroom use.

RF Design Guide Prompt

An elective course in the final-year BEng programme in electronic engineering in the City Polytechnic of Hong Kong was generated in response to the growing need of local industry for graduate engineers capable of designing circuits and performing measurements at high frequencies up to a few gigahertz. This book has grown out from the lecture and tutorial materials written specifically for this course. This course should, in the opinion of the author, best be conducted if students can take a final-year design project in the same area. Examples of projects in areas related to the subject matter of this book which have been completed successfully in the last two years that the course has been run include: low-noise amplifiers, dielectric resonator-loaded oscillators and down converters in the 12 GHz as well as the 1 GHz bands; mixers; varactor-tuned and non-varactor-tuned VCOs; low-noise and power amplifiers; and filters and duplexers in the 1 GHz, 800 MHz and 500 MHz bands. The book is intended for use in a course of forty lecture hours plus twenty tutorial hours and the prerequisite expected of the readers is a general knowledge of analogue electronic circuits and basic field theory. Readers with no prior knowledge in high-frequency circuits are recommended to read the book in the order that it is arranged. ~ In_t_r_o_d_u_c_t_i_o_n ~1 ~1.

High-Frequency Circuit Design and Measurements Cambridge Scholars Publishing

Modern wireless communications hardware is underpinned by RF and microwave design techniques. This insightful book contains a wealth of circuit layouts, design tips, and practical measurement techniques for building and testing practical gigahertz systems. The book covers everything you need to know to design, build, and test a high-frequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, low-noise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. Throughout the focus is practical, and many worked examples and design projects are included. There is also a CD-ROM that contains a variety of design and analysis programs. The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers.

Multimedia Signal Processing Simon and Schuster

Almost everyone who builds or experiments with electronic circuits develops an interest in making printed circuit boards. Devices built on pc boards are small, lightweight, simple to troubleshoot and repair, and easy to duplicate - qualities that professionals and hobbyists alike can appreciate.

The Generation of High Magnetic Fields Artech House

The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology.

Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae.

[Electronic Filter Design Handbook](#) American Radio Relay League (ARRL)

Taking a somewhat traditional viewpoint, this book begins with a review of stationary fields. Then, in a novel departure from many texts on EM theory, the author develops many of the essential ideas in wave propagation by treating purely scalar problems in one, two, and three dimensions. The loss in generality is later recovered when some of the same problems are addressed when vector solutions of Maxwell's equations are required.

Electromagnetic Wave Theory Butterworth-Heinemann

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and

applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

[Hand-book 1922](#) Springer

This manual provides a set of course materials tailored to students' needs, moving quickly where appropriate and slowly on more difficult concepts.

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