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FOUNDATIONS FOR MICROWAVE ENGINEERING, 2ND ED-Robert E. Collin 2007 About The Book: The book covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. It is an essential reference book for the practicing microwave engineer

Foundations for Microwave Engineering-Robert E. Collin 2001-01-05 FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. An essential reference book for the practicing microwave engineer, it features: Planar transmission lines, as well as an appendix that describes in detail conformal mapping methods for their analysis and attenuation characteristics Small aperture coupling and its application in practical components such as directional couplers and cavity coupling Printed circuit components with an emphasis on techniques such as even and odd mode analysis and the use of symmetry properties Microwave linear amplifier and oscillator design using solid-state circuits such as varactor devices and transistors FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, has extensive coverage of transmission lines, waveguides, microwave circuit theory, impedance matching and cavity resonators. It devotes an entire chapter to fundamental microwave tubes, in addition to chapters on periodic structures, microwave filters, small signal solid-state microwave amplifier and oscillator design, and negative resistance devices and circuits. Completely updated in 1992, it is being reissued by the IEEE Press in response to requests from our many members, who found it an invaluable textbook and an enduring reference for practicing microwave engineers. Sponsored by: IEEE Antennas and Propagation Society, IEEE Microwave Theory and Techniques Society An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley Makerting Department.

Foundations for Microwave Engineering-Professor of Electrical Engineering Robert E Collin 2004-09-10 FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. An essential reference book for the practicing microwave engineer, it features: Planar transmission lines, as well as an appendix that describes in detail conformal mapping methods for their analysis and attenuation characteristics Small aperture coupling and its application in practical components such as directional couplers and cavity coupling Printed circuit components with an emphasis on techniques such as even and odd mode analysis and the use of symmetry properties Microwave linear amplifier and oscillator design using solid-state circuits such as varactor devices and transistors FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, has extensive coverage of transmission lines, waveguides, microwave circuit theory, impedance matching and cavity resonators. It devotes an entire chapter to fundamental microwave tubes, in addition to chapters on periodic structures, microwave filters, small signal solid-state microwave amplifier and oscillator design, and negative resistance devices and circuits. Completely updated in 1992, it is being reissued by the IEEE Press in response to requests from our many members, who found it an invaluable textbook and an enduring reference for practicing microwave engineers. Sponsored by: IEEE Antennas and Propagation Society, IEEE Microwave Theory and Techniques Society An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley Makerting Department.

Customized Complete Foundations of Microwave Engineering-Robert E. Collin 1998

Foundations for Microwave Engineering-Robert E. Collin 1966

Instructor's Manual to Accompany Foundations for Microwave Engineering-Robert E. Collin 1992

Field Theory of Guided Waves-Robert E. Collin 1990-12-15 "Co-published with Oxford University Press Long considered the most comprehensive account of electromagnetic theory and analytical methods for solving waveguide and cavity problems, this new Second Edition has been completely revised and thoroughly updated -- approximately 40% new material!Packed with examples and applications FIELD THEORY OF GUIDED WAVES provides solutions to a large number of practical structures of current interest. The book includes an exceptionally complete discussion of scalar and Dyadic Green functions. Both a valuable review and source of basic information on applied mathematical topics and a hands-on source for solution methods and techniques, this book belongs on the desk of all engineers working in microwave and antenna systems!" Sponsored by: IEEE Antennas and Propagation Society

Antennas and Radiowave Propagation-Robert E. Collin 1985 Good.No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Advanced Engineering Electromagnetics-Constantine A. Balanis 2012-01-24 Balanis' second edition of Advanced Engineering Electromagnetics - a global best-seller for over 20 years - covers the advanced knowledge engineers involved in electromagnetic need to know, particularly as the topic relates to the fast-moving, continually evolving, and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects (antenna, microwave and wireless communication) points to an increase in the number of engineers needed to specialize in this field. In addition, the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text. Resources include: Ready-made lecture notes in Power Point format for all the chapters. Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena Nearly 600 end-of-chapter problems, that's an average of 40 problems per chapter (200 new problems; 50% more than in the first edition) A thoroughly updated Solutions Manual 2500 slides for Instructors are included.

Microwave Engineering, 3Rd Ed-David M.Pozar 2009-09 This classic text provides a thorough coverage of RF and microwave engineering concepts based on fundamental principles of electrical engineering and applied to microwave circuits and devices of practical importance. Coverage includes microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. A large number of examples and end-of-chapter problems test the reader's understanding of the material. Electromagnetic Theory: Transmission Line Theory: Transmission Lines and Waveguides· Microwave Network Analysis· Impedance Matching and Tuning· Microwave Resonators· Power Dividers and Directional Couplers· Microwave Filters· Theory and Design of Ferrimagnetic Components· Noise and Active RF Components· Microwave Amplifier Design· Oscillators and Mixers· Introduction to Microwave Systems

Basic Electrical Installation Work-Trevor Linsley 2018-09-03 Everything needed to pass the first part of the City & Guilds 2365 Diploma in Electrical Installations. Basic Electrical Installation Work will be of value to students taking the first year course of an electrical installation apprenticeship, as well as lecturers teaching it. The book provides answers to all of the 2365 syllabus learning outcomes, and one chapter is dedicated to each of the five units in the City & Guilds course. This edition is brought up to date and in line with the 18th Edition of the IET Regulations: It can be used to support independent learning or a college based course of study Full-colour diagrams and photographs explain difficult concepts and clear definitions of technical terms make the book a quick and easy reference Extensive online material on the companion website www.routledge.com/cw/linsley helps both students and lecturers

Microwave and RF Engineering-Roberto Sorrentino 2010-07-26 An essential text for both students and professionals, combining detailed theory with clear practical guidance This outstanding book explores a large spectrum of topics within microwave and radio frequency (RF) engineering, encompassing electromagnetic theory, microwave circuits and components. It provides thorough descriptions of the most common microwave test instruments and advises on semiconductor device modelling. With examples taken from the authors' own experience, this book also covers: network and signal theory; electronic technology with guided electromagnetic propagation; microwave circuits such as linear and non-linear circuits, resonant circuits and cavities, monolithic microwave circuits (MMICs), wireless architectures and integrated circuits; passive microwave components, control components; microwave filters and matching networks. Simulation files are included in a CD Rom, found inside the book. Microwave and RF Engineering presents up-to-date research and applications at different levels of difficulty, creating a useful tool for a first approach to the subject as well as for subsequent in-depth study. It is therefore indispensable reading for advanced professionals and designers who operate at high frequencies as well as senior students who are first approaching the subject.

Microwave Engineering-Annapurna Das 2000

Microwave Devices and Circuits-Liao 1990-09

Engineering Vibrations-William J. Bottega 2014-12-11 A thorough study of the oscillatory and transient motion of mechanical and structural systems, Engineering Vibrations, Second Edition presents vibrations from a unified point of view, and builds on the first edition with additional chapters and sections that contain more advanced, graduate-level topics. Using numerous examples and case studies to r

RF and Microwave Wireless Systems-Kai Chang 2004-04-05 A comprehensive introduction to the hardware, parameters, and architectures of RF/microwave wireless systems As the basis for some of the hottest technologies of the new millennium, radio frequency (RF) and microwave wireless systems rapidly propel us toward a future in which the transmission of voice, video, and data communications will be possible anywhere in the world through the use of simple, handheld devices. This book provides scientists and engineers with clear, thorough, up-to-date explanations of all aspects of RF and microwave wireless systems, including general hardware components, system parameters, and architectures. Renowned authority Kai Chang covers both communication and radar/sensor systems and extends the discussion to other intriguing topics, from global positioning systems (GPS) to smart highways and smart automobiles. With an emphasis on basic operating principles, Dr. Chang reviews waves and transmission lines, examines modulation and demodulation and multiple-access techniques, and helps bridge the gap between RF/microwave engineering and communication system design. Ample practical examples of components and system configurations and nearly 300 illustrations and photographs complete this timely and indispensable resource. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Mathematical Foundations for Electromagnetic Theory-Donald G. Dudley 1994 Co-published with Oxford University Press. This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology. Features include in-depth coverage of linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems. This book will be of interest to graduate-level students in engineering, electromagnetics, physics, and applied mathematics as well as to research engineers, physicists, and scientists.

Introduction to Microwave Circuits-Robert J. Weber 2001-01-23 "Do you want to design a wireless transmitter or receiver for hand-held telephones? Have you wondered why the printed circuit wires on high-frequency circuits don't always run in a straight line? This valuable text will answer all of your questions regarding component parasitics and circuit characterization for rf/microwave amplifier, oscillator, and filter circuit design and analysis. You will understand why capacitors act as inductors and vice versa and why amplifiers work like oscillators, while oscillators for local area networks work more like local area heaters. Application of the information in Introduction to Microwave Circuits will reduce design-cycle time and costs, markedly increasing the probability of first-time success in printed circuit or monolithic microwave integrated circuit (MMIC) design. Several approaches are taken into consideration, such as the effects of currents on the ground plane, bypass and coupling capacitors, and nonlinear effects in linear circuits. Featured topics include: \* Incorporation of component parasitics in the design cycle \* Closed form solution to oscillator design \* Odd mode stability analysis \* PIN diode analysis for high-power switching applications An integrated design example of a 1.25 GHz amplifier, oscillator, and filter printed circuit is also included, which could be useful in printed circuit board designs from tens of megahertz to tens of gigahertz. Introduction to Microwave Circuits provides the tools necessary to analyze or synthesize microwave circuits. This text is an essential reference for undergraduate students, microwave engineers, and administrators. Also, it will assist experienced designers in other fields to meet the current rapid expansion of communication system applications and work effectively in microwave circuit design. About the Author Robert J. Weber began his prolific career in the Solid State Research Laboratory at the Collins Radio Company, later a part of Rockwell International. For 25 years, he worked on advanced development and applied research in the one- to ten-gigahertz frequency range and received several distinguished awards for his valuable contributions to the field. Dr. Weber is involved in ongoing experimental research in integrating microwave circuits with other devices such as MEMS, chemical sensors, and electro-optics. Also, he teaches microwave circuit design and fiber-optics communications at the Department of Electrical and Computer Engineering, Iowa State University. Dr. Weber is an IEEE Fellow." Sponsored by: IEEE Microwave Theory and Techniques Society.

Foundations for Microstrip Circuit Design-Terry C. Edwards 2016-02-01 Building on the success of the previous three editions, Foundations for Microstrip Circuit Design offers extensive new, updated and revised material based upon the latest research. Strongly design-oriented, this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering. Topics new to this edition: microwave substrates, multilayer transmission line structures, modern EM tools and techniques, microstrip and planar transmission line design, transmission line theory, substrates for planar transmission lines, Vias, wirebonds, 3D integrated interposer structures, computer-aided design, microstrip and power-dependent effects, circuit models, microwave network analysis, microstrip passive elements, and slotline design fundamentals.

Microwave and RF Vacuum Electronic Power Sources-Richard G. Carter 2018-03-31 Get up-to-speed on the theory, principles and design of vacuum electron devices.

Microwave Engineering-David M. Pozar 2011-11-22 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.

Small Antenna Handbook-Robert C. Hansen 2011-10-25 "This book addresses the recent significant theoretical and practical developments in the electrically small antenna area. It explains work on electromagnetically coupled structures, improving bandwidth using spherical helix dipoles, the exact derivation of the Q for electrically small antennas for both TE and TM modes, a new simplified Q formula developed by the authors, and provides an expanded discussion of metamaterials and computer model accuracy for ESA"--

Microwave Semiconductor Engineering-Joseph F. White 2012-12-06 Joseph F. White has studied, worked, and taught in all aspects of microwave semiconductor materials, control diodes, and circuit applications. He is thoroughly grounded in the physics and mathematics of the field, but has primarily the engineer's viewpoint, combining basic knowledge with experience and ingenuity to generate practical designs under constraints of required performance and costs of development and production. As a result of his teaching experience and numerous technical papers and oral presentations, he has developed a clear, well-organized writing style that makes this book easy to use as a self-teaching text, a reference volume, and a design handbook. Dr. White believes that an engineer must have a good understanding of semiconductor physics, a thorough knowledge of microwave circuit theory, at least an elementary acquaintance with transistor drivers, and the ability to check and refine a microwave circuit on a computer terminal to be qualified for modern, creative design of microwave semiconductor control components. These subjects are well covered in approximately the first half of the book; the second half treats the general and specific design of switches, attenuators, limiters, duplexers, and phase shifters, with many examples drawn from his experience and that of others.

Modern Antennas-S. Drabowitch 2013-11-11 Why yet another book on antennas ? The aim of the authors was to offer a didactic text appropriate for advanced graduate students, as well as a practical work for practicing engineers; to combine a solid theoretical treatment with a practical development which should allow the serious reader to undertake antenna design from first principles. To accomplish these goals, the authors bring together their contributions from both industry and the academic environment. The developments of the various topics start at a level which is accessible to a novice in the speciality, but give a treatment which culminates at an advanced level. Another important feature of the book is its use of practical examples illustrating real engineering problems and designs. In most cases, the explanation is sufficient to grasp the principles of operation of the related equipment, and, where appropriate, the reader is referred to a relevant bibliography for more complete and hence more sophisticated methodologies of design. Of particular note are the chapters on specialist subjects such as antennas and signal theory, and signal processing antennas, showing how the antenna may be combined with signal processing techniques in imaging applications, in angular superresolution, and in adaptive arrays to suppress interference and jamming. Another example is the chapter on the use of polarimetry to enhance the wealth of information which may be extracted, for example, from radar signals.

Conformal Array Antenna Theory and Design-Lars Josefsson 2006-02-10 This is the first comprehensive treatment of conformal antenna arrays from an engineering perspective. While providing a thorough foundation in theory, the authors of this publication provide a wealth of hands-on instruction for practical analysis and design of conformal antenna arrays. Thus, you get the knowledge you need, alongside the practical know-how to design antennas that are integrated into such structures aircrafts or skyscrapers.

Microwave NDT-N. Ida 2012-12-06 Microwave testing has been paid only scant attention in the literature as a method for nondestructive testing of materials, yet it offers some attractive features, especially for the testing of composite and other non-metallic materials. Microwave techniques have been used in a large number of applications that can be classified as nondestructive testing applications, ranging from large scale remote sensing to detection of tumors in the body. This volume describes a unified approach to microwave nondestructive testing by presenting the three essential components of testing: theory, practice, and modelling. While recognizing that each of these subjects is wide enough to justify a volume of its own, the presentation of the three topics together shows that these are interrelated and should be practiced together. While few will argue against a good theoretical background, modelling and simulation of the testing environment is seldom part of the NDT training in any method, but particularly so in microwave testing. The text is divided in four parts. The first part presents the field theory background necessary for understanding the microwave domain. The second part treats microwave measurements as well as devices and sources and the third part discusses practical tests applicable to a variety of materials and geometries. The fourth part discusses modelling of microwave testing. Each chapter contains a bibliography intended to expand on the material given and, in particular, to point to subjects which could not be covered either as not appropriate or for lack of space. For engineers, applied physicists, material scientists.

Microwave Measurements, 3rd Edition-R.J. Collier 2007-01-01 The IET has organised training courses on microwave measurements since 1983, at which experts have lectured on modern developments. Their lecture notes were first published in book form in 1985 and then again in 1989, and they have proved popular for many years with a readership beyond those who attended the courses. The purpose of this third edition of the lecture notes is to bring the latest techniques in microwave measurements to this wider audience. The book begins with a survey of the theory of current microwave circuits and continues with a description of the techniques for the measurement of power, spectrum, attenuation, circuit parameters, and noise. Various other areas like measurements of antenna characteristics, free fields, modulation and dielectric parameters are also included. The emphasis throughout is on good measurement practice. All the essential theory is given and a previous knowledge of the subject is not assumed.

Microwave Engineering 2E-Das 2009

The Engineering of Foundations-Rodrigo Salgado 2008 The Engineering of Foundations presents the subject of foundation engineering in a logical framework, in a natural sequence and in as simple a presentation as possible. The text emphasizes conceptual understanding and avoids an oversimplistic treatment of the subject. Estimation of soil parameters for use in design is given high priority. Users will find an up-to-date text that relates theory to real world practices and integrates concepts and continuity of examples across chapters. Illustrations, applications and hands-on examples are provided, to explain these critical foundations. Explains the "why". One reviewer notes, "This is the Holtz and Kovacs of Foundations!!"

Computational Electromagnetics-Carsten Carstensen 2012-12-06 The dimmed outlines of phenomenal things all into one another unless we put on the merge focusing-glass of theory, and screw it up some times to one pitch of definition and sometimes to another, so as to see down into different depths through the great millstone of the world James Clerk Maxwell (1831 - 1879) For a long time after the foundation of the modern theory of electromagnetism by James Clerk Maxwell in the 19th century, the mathematical approach to electromagnetic field problems was for a long time dominated by the analytical investigation of Maxwell's equations. The rapid development of computing facilities during the last century has then necessitated appropriate numerical methods and algorithmic tools for the simulation of electromagnetic phenomena. During the last few decades, a new research area "Computational Electromagnetics" has emerged comprising the mathematical analysis, design, implementation, and application of numerical schemes to simulate all kinds of relevant electromagnetic processes. This area is still rapidly evolving with a wide spectrum of challenging issues featuring, among others, such problems as the proper choice of spatial discretizations (finite differences, finite elements, finite volumes, boundary elements), fast solvers for the discretized equations (multilevel techniques, domain decomposition methods, multipole, panel clustering), and multiscale aspects in microelectronics and micromagnetics.

Microwave Engineering-Ahmad Shahid Khan 2014-03-24 Detailing the active and passive aspects of microwaves, Microwave Engineering: Concepts and Fundamentals covers everything from wave propagation to reflection and refraction, guided waves, and transmission lines, providing a comprehensive understanding of the underlying principles at the core of microwave engineering. This encyclopedic text not only encompasses nearly all facets of microwave engineering, but also gives all topics—including microwave generation, measurement, and processing—equal emphasis. Packed with illustrations to aid in comprehension, the book: Describes the mathematical theory of waveguides and ferrite devices, devoting an entire chapter to the Smith chart and its applications Discusses different types of microwave components, antennas, tubes, transistors, diodes, and parametric devices Examines various attributes of cavity resonators, semiconductor and RF/microwave devices, and microwave integrated circuits Addresses scattering parameters and their properties, as well as planar structures including striplines and microstrips Considers the limitations of conventional tubes, behavior of charged particles in different fields, and the concept of velocity modulation Based on the author's own class notes, Microwave Engineering: Concepts and Fundamentals consists of 16 chapters featuring homework problems, references, and numerical examples. PowerPoint® slides and MATLAB®-based solutions are available with qualifying course adoption.

Microwave Engineering-Peter A. Rizzi 1988 A comprehensive introduction to microwave devices and circuits. Includes both physical and mathematical descriptions and many practical illustrations.

Fast Techniques for Integrated Circuit Design-Mikael Sahrling 2019-08-15 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.

ANTENNA THEORY AND DESIGN, REVISED ED-Robert S Elliot 2006-08 Market\_Desc: · Advance courses in Antenna Theory and Design courses for seniors and first year graduate students in Electrical Engineering Special Features: · Provides fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates· Provides insightful examples of the application of theory to real design problems. It is beautifully and clearly written and is of the highest technical quality· This is the leading text on antenna arrays and the author is the leading researcher in this field. The text frequently refers to the historical development of antennas, which no other text does About The Book: This text is the classic work in Antenna Theory and Design and is just as relevant to the field today as it was when first published in 1981. It provides an analytic treatment, with supporting experimental evidence, of the major topics of concern to antenna designers. This is a broad-ranging text that covers most of the relevant topics in antenna theory providing fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates. This stress on the fundamentals is what makes the text valuable twenty-one years after its first publication. It not only presents the theory, but goes on to show very insightful examples of its application to real design problems.

Microwave Engineering Using Microstrip Circuits-E. H. Fooks 1990

Principles and Applications of Electromagnetic Fields-Robert Plonsey 1961

Radio-Frequency and Microwave Communication Circuits-Devendra K. Misra 2012-04-12 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 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 communication. \*An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Waveguide Handbook-Nathan Marcuvitz 1951 Presents the equivalent-circuit parameters for a large number of microwave structures.

Principles of Microwave Circuits-Carol Gray Montgomery 1987 Introduction: Electromagnetic waves. Waveguides as transmission lines. Elements of network theory. General microwave circuit theorems. Waveguide circuit elements. Resonant cavities as microwave circuit elements. Radial transmission lines. Waveguide junctions with several arms. Mode transformations. Dielectrics in waveguides. The symmetry of waveguide junctions.

Software-Defined Radio for Engineers-Alexander M. Wyglinski 2018-04-30 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.

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