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fields to materials can operate in microwave, infrared, visible, ultraviolet, X-ray, gamma ray, and even higher energy regimes. The design of lens and mirror systems for coupling radiation directly to materials is generally called "optics", and the use of these optical techniques for

This book provides a fundamental and practical introductionto radio frequency and microwave engineering and physical aspectsof wireless communication In this book, the author addresses a wide range ofradio-frequency and microwave topics with emphasis on physicalaspects including EM and voltage waves, transmission lines, passivecircuits, antennas, radio wave propagation. Up-to-date RF designtools like RF circuit simulation, EM simulation and computerizedsmith charts, are used in various examples to demonstrate how thesemethods can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoreticalparts. The examples are close to real world problems, so the readercan directly transfer the methods within the context of their ownwork. At the end of each chapter a list of problems is given inorder to deepen the reader's understanding of the chaptermaterial and practice the new competences. Solutions are availableon the author's website. Key Features: Presents a wide range of RF topics with emphasis on physicalaspects e.g. EM and voltage waves, transmission lines, passivecircuits, antennas Uses various examples of modern RF tools that show how themethods can be applied productively in RF engineering practice Incorporates various design examples using circuit andelectromagnetic (EM) simulation software Discusses the propagation of waves: their representation, theireffects, and their utilization in passive circuits and antennastructures Provides a list of problems at the end of each chapter Includes an accompanying website containing solutions to theproblems (http://www.fh-dortmund.de/gustrau_rf_textbook) This will be an invaluable textbook for bachelor andmasters students on electrical engineering courses(microwave engineering, basic circuit theory and electromagneticfields, wireless communications). Early-stage RF practitioners,engineers (e.g. application engineer) working in this area willalso find this book of interest.

Introduces CEM methods, applying the codes that implement them to real-world engineering problems.

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.

A comprehensive, hands-on review of the most up-to-date techniques in RF and microwave measurement, including practical advice on deployment challenges.

Fundamentals of Microwave and RF Design enables mastery of the essential concepts required to cross the barriers to a successful career in microwave and RF design. Extensive treatment of scattering parameters, that naturally describe power flow, and of Smith-chart-based design procedures prepare the student for success. The emphasis is on design at the module level and on covering the whole range of microwave functions available. The orientation is towards using microstrip transmission line technologies and on gaining essential mathematical, graphical and design skills for module design proficiency. This book is derived from a multi volume comprehensive book series, Microwave and RF Design, Volumes 1-5, with the emphasis in this book being on presenting the fundamental materials required to gain entry to RF and microwave design. This book closely parallels the companion series that can be consulted for in-depth analysis with referencing of the book series being familiar and welcoming. Key Features * A companion volume to a comprehensive series on microwave and RF design * Open access ebook editions are hosted by NC State University Libraries at https://repository.lib.ncsu.edu/handle/1840.20/36776 * 59 worked examples * An average of 24 exercises per chapter * Answers to selected exercises * Emphasis on module-level design using microstrip technologies * Extensive treatment of design using Smith charts * A parallel companion book series provides a detailed reference resource

This textbook provides a fundamental approach to RF and microwave engineering. It is unusual for the thoroughness with which these areas are presented. The effect is that the reader comes away with a deep insight not only of the design formulation but answers to how and why those formulations work. This is especially valuable for engineers whose careers involve research and product development, wherein the applicability of the applied principles must be understood. The scope of this book extends from topics for a first course in electrical engineering, in which impedances are analyzed using complex numbers, through the introduction of transmission lines that are analyzed using the Smith Chart, and on to graduate level subjects, such as equivalent circuits for obstacles in hollow waveguides, analyzed using Green's Functions. This book is a virtual encyclopedia of circuit design methods. Despite the complexity, topics are presented in a conversational manner for ease of comprehension. The book is not only an excellent text at the undergraduate and graduate levels, but is as well a detailed reference for the practicing engineer. Consider how well informed an engineer will be who has become familiar with these topics as treated in High Frequency Techniques: (in order of presentation) Brief history of wireless (radio) and the Morse code U.S. Radio Frequency Allocations Introduction to vectors AC analysis and why complex numbers and impedance are used Circuit and antenna reciprocity Decibel measure Maximum power transfer Skin effect Computer simulation and optimization of networks LC matching of one impedance to another Coupled Resonators Uniform transmission lines for propagation VSWR, return Loss and mismatch error The Telegrapher Equations (derived) Phase and Group Velocities The Impedance Transformation Equation for lines (derived) Fano's and Bode's matching limits The Smith Chart (derived) Slotted Line impedance measurement Constant Q circles on the Smith Chart Approximating a transmission line with lumped L's and C's ABCD, Z, Y and Scattering matrix analysis methods for circuits Statist

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.

This is a one-stop guide for circuit designers and system/device engineers, covering everything from CAD to reliability.

A self-contained guide to microwave electronics, covering passive and active components, linear, low-noise and power amplifiers, microwave measurements, and CAD techniques. It is the ideal text for graduate and senior undergraduate students taking courses in microwave and radio-frequency electronics, as well as professional microwave engineers.

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.

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