
Microwave Engineering Gupta

Numerical Methods

From Mesoscale to Nanoscale

Concepts and Applications of MICROWAVE ENGINEERING

Nonlinear RF Circuits and Nonlinear Vector Network Analyzers

Neural Networks for RF and Microwave Design

Microwave Engineering

Microwave and Radar Engineering

Microwave Integrated Circuit Components Design through MATLAB®

Microwave Engineering

(as Per UPTU Syllabus)

Microwave Integrated Circuits

Techniques, Management, and Energy Conservation

Microstrip Lines and Slotlines

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The Electrical Engineering Handbook

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INTRODUCTION TO MICROWAVE ENGINEERING

PRINCIPLES, WAVEGUIDES, MICROWAVE AMPLIFIERS AND APPLICATIONS

Concepts and Fundamentals

Lumped Elements for RF and Microwave Circuits

Microwave Solid State Circuit Design

Microwave Engineering, 3e

Microwaves : Introduction To Circuits, Devices And Antennas

Handbook of Research on Advanced Trends in Microwave and Communication Engineering

Microwave Engineering

Microwave, Radar & RF Engineering

MICROWAVE DEVICES AND CIRCUIT DESIGN

High Frequency and Microwave Engineering

High Frequency and Microwave Engineering

Microstrip Lines and Slotlines, Third Edition

Printed Antennas

Fundamentals and Applications

Microwave Engineering 2E

Microwaves and Metals

FUNDAMENTALS OF MICROWAVE ENGINEERING

MICROWAVE ENGINEERING

Microwave Integrated Circuits

Microwave Engineering

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MICROWAVE INTEGRATED
CIRCUIT COMPONENTS

DESIGN THROUGH MATLAB® This book teaches the student community microwave integrated circuit component design through MATLAB®, helping the reader to become conversant in using codes and, thereafter, commercial software for verification purposes only. Microwave circuit theory and its comparisons, transmission line networks, S-parameters, ABCD parameters, basic design parameters of planar transmission lines (striplines, microstrips, slot lines, coplanar waveguides, finlines), filter theory, Smith chart, inverted Smith chart, stability circles, noise figure circles and microwave components, are thoroughly explained in the book. The chapters are planned in such a way that readers get a thorough understanding to ensure expertise in design. Aimed at senior undergraduates, graduates and researchers in electrical engineering, electromagnetics, microwave circuit design and communications engineering, this book: • Explains basic tools for design and analysis of microwave circuits such

as the Smith chart and network parameters • Gives the advantage of realizing the output without wiring the circuit by simulating through MATLAB code • Compares distributed theory with network theory • Includes microwave components, filters and amplifiers S. Raghavan was a Senior Professor (HAG) in the Department of Electronics and Communication Engineering, National Institute of Technology (NIT), Trichy, India and has 39 years of teaching and research experience at the Institute. His interests include: microwave integrated circuits, RF MEMS, Bio MEMS, metamaterial, frequency selective surfaces (FSS), substrate integrated waveguides (SIW), biomedical engineering and microwave engineering. He has established state-of-the-art MICs and microwave research laboratories at NIT, Trichy with funding from the Indian government. He is a Fellow/Senior Member in more than 24 professional societies including: IEEE (MTT, EMBS, APS), IETE, IEI, CSI, TSI, ISSS, ILA and ISOI. He is twice a recipient of the Best Teacher Award, and has received the Life Time

Achievement Award, Distinguished Professor of Microwave Integrated Circuit Award and Best Researcher Award.

From Mesoscale to Nanoscale Tata McGraw-Hill Education

David Pozar, author of Microwave Engineering, Second Edition, has written a new text that introduces students to the field of wireless communications. This text offers a quantitative and, design-oriented presentation of the analog RF aspects of modern wireless telecommunications and data transmission systems from the antenna to the baseband level. Other topics include noise, intermodulation, dynamic range, system aspects of antennas and filter design. This unique text takes an integrated approach to topics usually offered in a variety of separate courses on topics such as antennas and propagation, microwave systems and circuits, and communication systems. This approach allows for a complete presentation of wireless telecommunications systems designs. The author's goal with this text is for the student to be able to analyze a

complete radio system from the transmitter through the receiver front-end, and quantitatively evaluate factors. Suitable for a one-semester course, at the senior or first year graduate level. Note certain sections have been denoted as advanced topics, suitable for graduate level courses.

Concepts and Applications of MICROWAVE

ENGINEERING New Age International

With communications technologies rapidly expanding, the traditional separation of electronic circuits and antenna systems design is no longer feasible. This book covers various design approaches applicable to integrated circuit-antenna modules with the goal of placing the antenna, transmitter, and receiver all on a single chip. It emphasizes analysis and design involving the integration of circuit functions with radiating elements and addresses trends in systems miniaturization.

Nonlinear RF Circuits and Nonlinear Vector Network Analyzers PHI Learning Pvt. Ltd.

'Microwave Engineering' is a textbook intended for undergraduate students

of electronics and communication engineering. The text can also serve as reference material for postgraduate students. The book covers both the fundamental and advanced topics of this area with some insights into latest developments in this area.

Neural Networks for RF and Microwave Design

Elsevier

It extensively covers the subject and is expected to serve as a basic text for the students of electronics and communication engineering, electrical engineering and electronics engineering, and covers the syllabus of courses for BE, BTech, AMIE, IETE, MSc, and polytechnics. Salient Features A comprehensive and an easy-to-read text to provide a detailed coverage of microwave fundamentals, devices and circuits. Covers the text in nine chapters and appendices. Each chapter is supplemented with elaborate illustrations, tables, solved and unsolved problems, and MCQs. An exhaustive set of solved problems in each chapter to help students aspiring to appear in the examinations like GATE, PSUs and UPSC. Useful for BE, BTech, AMIE, IETE,

MSc, and polytechnic students of ECE, and electrical engineering and also for self-study by engineers.

Microwave Engineering

John Wiley & Sons
CD-ROM contains: PUFF 2.1 for construction and evaluation of circuits.

Microwave and Radar Engineering New Age International

This book has been written for students and professionals in electronics and communication engineering. Its contents cover the core requirements of microwave and radar engineering courses. The authors between them have over 60 years of teaching electronic and microwave technology, and their combined knowledge of the subject has produced an outstanding new text. They have taken special care in keeping a balance between the mathematical and the physical approach, and they have interspersed illustrations consistently throughout the book to help aid understanding. Also included are a number of solved problems taken from university exams which reinforce the key concepts of the subject.

Microwave Integrated Circuit Components Design through

MATLAB® Springer

This is a textbook for upper undergraduate and graduate courses on microwave engineering, written in a student-friendly manner with many diagrams and illustrations. It works towards developing a foundation for further study and research in the field. The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides. It covers equipment and concepts involved in the study and measurement of microwaves. The book also discusses microwave propagation in space, microwave antennae, and all aspects of RADAR. The book provides core pedagogy with chapter objectives, summaries, solved examples, and end-of-chapter exercises. The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits, precautions, sample readings, and quiz/viva questions for each experiment. This book will be useful to instructors and students alike.

Microwave Engineering

PHI Learning Pvt. Ltd.

This textbook presents a unified treatment of theory, analysis and design of microwave devices and circuits. It is designed to address the needs of undergraduate students of electronics and communication engineering for a course in microwave engineering as well as those of the students pursuing M.Sc. courses in electronics science. The main objective is to provide students with a thorough understanding of microwave devices and circuits, and to acquaint them with some of the methods used in circuit analysis and design. Several types of planar transmission lines such as stripline, microstrip, slot line and a few other structures have been explained. The important concepts of scattering matrix and Smith chart related to design problems have been discussed in detail. The performance and geometry of microwave transistors-both bipolar and field effect-have been analysed. Microwave passive components such as couplers, power dividers, attenuators, phase shifters and circulators have been

comprehensively dealt with. Finally, the analysis and design aspects of microwave transistor amplifiers and oscillators are presented using the scattering parameters technique. Numerous solved problems and chapter-end questions are included for practice and reinforcement of the concepts.

(as Per UPTU Syllabus) PHI Learning Pvt. Ltd.

This Book Is Intended As An Introductory Text On Microwave Circuits, Devices And Antennas. It Can Be Used Not Only By The Students Of Physics And Engineering At The Graduate And The Postgraduate Levels, But Also By Practising Engineers, Technicians And Research Workers In The Area Of Microwaves. It Contains Comprehensive Up-To-Date Text For A Standard Course On Transmission Lines, Guided Waves, Passive Components (Including Ferrite Devices), Periodic Structures And Filters, Microwave Vacuum Tubes, Solid State Devices And Their Applications, Strip-Lines, Mics And Antennas. It Also Includes Microwave Measurements At Length. The Written Text Is Supplemented With A Large Number Of

Suitable Diagrams And A Good Number Of Solved Examples For Reinforcing The Key Aspects. Each Chapter Has A Select Bibliography/References And Good Number Of Problems And Review Questions At The End.

Microwave Integrated Circuits IGI Global

This book presents the basic principles, characteristics and applications of commonly used microwave devices used in the design of microwave systems. The book begins with a brief overview of the field of microwave engineering and then provides a thorough review of two prerequisite topics in electromagnetics, that is, electromagnetic field theory and transmission lines, so essential to know before analysing and designing microwave systems. The book presents the full spectrum of both passive and active microwave components. Hollow pipe waveguides are thoroughly analysed with respect to their field components and other important characteristics such as bandwidth, dispersive nature, various impedances, and attenuation parameters. The basic principles of various types of microwave junctions used

for power division, addition, and in measurement systems, such as tees, directional-couplers, circulators, gyrators, etc. are explained, along with their scattering parameters required for the analysis of microwave circuits. The text also presents a comprehensive analytical treatment of microwave tubes in common use, such as klystrons, magnetrons, TWTs, and solid state sources such as Gunn diodes, IMPATT diodes, funnel diodes and PiN diodes, etc. Finally, the book describes the laboratory procedures for measurements of various parameters of circuits working at microwave frequencies. The book contains an instructional framework at the end of each chapter composed of questions, problems, and objective type questions to enable students to gain skills in applying the principles and techniques learned in the text. The book is appropriate for a course in Microwave Engineering at the level of both undergraduate and postgraduate students of Electronics and Communication Engineering.

Techniques, Management, and Energy Conservation

Anshan Pub

Due to the unprecedented growth in wireless applications over the past decade, development of low-cost solutions for RF and microwave communication systems has become of great importance. This practical new book is the first comprehensive treatment of lumped elements, which are playing a critical role in the development of the circuits that make these cost-effective systems possible. The book offers you an in-depth understanding of the different types of RF and microwave circuit elements, including inductors, capacitors, resistors, transformers, via holes, airbridges, and crossovers.

Microstrip Lines and Slotlines Wiley-Interscience

Printed antennas have become an integral part of next-generation wireless communications and have been found to be commonly used to improve system capacity, data rate, reliability, etc. This book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with

the basic conceptual knowledge about antennas along with advanced techniques for antenna design. It covers a variety of analytical techniques and their CAD applications and discusses new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS. The book will be useful to students as an introduction to design and applications of antennas. Additionally, experienced researchers in this field will find this book a ready reference and benefit from the techniques of research in printed antennas included in this book. Following are some of the salient features of this book: Covers a variety of analytical techniques and their CAD applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna Presents special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS

Novel Dairy Processing Technologies New Age

International 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.

The Electrical Engineering Handbook CRC Press

The use of microwaves has gradually democratized itself in several scientific areas and is now a common methodology in domains

as different as chemistry, protein digestion, mining, and metallurgy. Materials chemistry is one field where microwave irradiation technologies are being studied. In recent years, development of nanotechnologies has increased the interest of materials scientists in these new technologies. Microwave methodologies are now routinely used in several areas of materials science, and new advances are ongoing. This book presents recent improvements in microwave engineering of materials and nanomaterials, interactions of microwave chemistry with materials, and advances in microwave technologies in several domains such as polymer synthesis and modification, processing of various materials (ceramics, glasses, metallic alloys, zeolites), and synthesis and functionalization of diverse nanomaterials (carbon nanotubes, MOF semiconductors, inorganic nanoparticles). The book will be of interest to all students and researchers in materials science and nanosciences who want to discover or increase their knowledge of microwave technology.

Analysis and Design of Integrated Circuit-Antenna Modules Artech House

This Book Exhaustively Explains The Fundamental Physical And Theoretical Principles Underlying Microwave And Millimeter Wave Active Devices. Both Vacuum And Solid State Devices Are Suitably Discussed. The Book Begins By Highlighting The Applications Of Microwaves And Various Types Of Devices. It Then Explains Vacuum Devices Including Gyrodevices And Other High Power Sources. Various Two And Three Terminal Solid State Devices Are Then Discussed. These Include Hbts, Hfets And Rtds. The Text Is Amply Illustrated Through A Large Number Of Suitable Diagrams And Worked Out Examples. Practice Problems, Review Questions And Extensive References Are Also Given At The End Of Each Chapter. The Book Would Serve As An Exhaustive Text For Both Undergraduate And Postgraduate Students Of Physics And Electronics.

INTRODUCTION TO MICROWAVE

ENGINEERING Elsevier
Microwaves and Metals John Wiley & Sons
PRINCIPLES, WAVEGUIDES, MICROWAVE AMPLIFIERS

AND APPLICATIONS John Wiley & Sons

Written in an easy-to-understand manner, this comprehensive textbook brings together both basic and advanced concepts of numerical methods in a single volume. Important topics including error analysis, nonlinear equations, systems of linear equations, interpolation and interpolation for Equal intervals and bivariate interpolation are discussed comprehensively. The textbook is written to cater to the needs of undergraduate students of mathematics, computer science, mechanical engineering, civil engineering and information technology for a course on numerical methods/numerical analysis. The text simplifies the understanding of the concepts through exercises and practical examples. Pedagogical features including solved examples and unsolved exercises are interspersed throughout the book for better understanding.

Concepts and Fundamentals

Cambridge University Press
This book is primarily designed for courses in

Microwave Engineering for undergraduate students of Electronics and Communication Engineering. Besides, it would be a useful text for students pursuing AMIE courses and M.Sc. students pursuing courses in physics and electronic sciences. The book explains the basic principles with a view to providing the students with a thorough understanding of microwave devices and circuits. It explains the analysis and design techniques used in microwave engineering. It provides a unified presentation of solid-state devices, microwave tubes (TWTs), klystrons, magnetrons and microwave circuits. Concentrating on clarity of explanation, the text provides a comprehensive presentation of the relevant theoretical aspects to allow students to easily assimilate this highly mathematical subject.

Lumped Elements for RF and Microwave Circuits

CBS Publishers & Distributors Private Limited
With the increased use of mobile phones and computer wireless techniques, a need has developed for a book

which provides students and industry with expertise in radio and microwave engineering. This important text has been written with these aims in mind. *Provides a comprehensive course in radio and microwave engineering *Includes CD-ROM, containing the CAD package PUFF 2.1 for construction and evaluation of circuits; and a comprehensive section on practical aspects of design *Written by an experienced author, in a clear and easy-to-follow style *Contains a variety

of examples and self-test questions with model answers The material covers transmission lines, scattering parameters, couplers, amplifiers, oscillators and phase-locked loops in a novel way by introducing examples from daily life prior to the introduction of the theory. Microwave tools such as Smith charts, scattering parameters and signal flow diagrams are dealt with thoroughly and are fully integrated in the numerous examples throughout the text and

with PUFF. High Frequency and Microwave Engineering is intended as an advanced undergraduate text for students of electrical and communication engineering, and is also eminently suitable for self-study and as a manual for those in the industry wishing to update their engineering skills. Provides a comprehensive course in radio and microwave engineering Contains many examples and self-test questions with model answers

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