
Microwave Engineering By Gsn Raju

RF and Microwave Circuits, Measurements, and Modeling
Proceedings of the Fourth ICMEET 2018
Fractal Apertures in Waveguides, Conducting Screens and Cavities
Antennas and Wave Propagation
A Problem Solving Approach
Electronic Devices and Circuits
Optical and Wireless Technologies
Millimeter Wave and Microwave
Radar Principles
Basic Electrical and Electronics Engineering:
Microwave Engineering
Electromagnetic Field Theory and Transmission Lines
Microelectronics, Electromagnetics and Telecommunications
Design of Machine Elements
Microwave and Radar Engineering
Proceedings of ICMEET 2015
Hello, Android
Principles of Electrodynamics
Introduction to Electromagnetic Waves with Maxwell's Equations
Issues and Challenges in Disaster Management
Introducing Google's Mobile Development Platform
Microelectronics, Electromagnetics and Telecommunications
COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER.
Antennas and Wave Propagation
Principles Of Electromagnetics, 4Th Edition, International Version
The RF and Microwave Handbook

Analysis and Design
Proceedings of the Fifth ICMEET 2019
Proceedings of OWT 2018
Electronic Devices and Circuits
Proceedings of International Conference on Remote Sensing for Disaster Management
Transmission Lines & Waveguides
Electromagnetic Fields & Waves
WAVE PROPAGATION AND ANTENNA ENGINEERING
Microwave Engineering
Antenna and Wave Propagation
Proceedings of the International Conference on Millimeter Wave & Microwave, ICOMM-90, December 19-21, 1990, Defence Electronics Applications Laboratory
Microelectronics, Electromagnetics and Telecommunications

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BYRON JAIDYN

RF and Microwave Circuits, Measurements, and Modeling CRC Press

The book is primarily designed to cater to the needs of undergraduate and postgraduate students of Electronics and Communication Engineering and allied branches. It also caters for fundamental requirements of professionals working on design and development of antenna and wave propagation related equipment either in research laboratories or

industries or academic institutions elsewhere. The book has been written with intent to grasp the basic understanding of theoretical as well as practical aspects of electromagnetic wave propagation and antenna engineering. The text has been aptly scripted considering the requirements of average students who can easily grasp and comprehend the basics of wave propagation and radiation mechanism of varieties of antennas coupled with their critical functionalities, utilities, advantages/disadvantages without any external assistance of teachers or other reference books. The

book broaches very well on practical methods of parametric measurements of antenna with right measuring test equipment and associated tools. The last chapter of the book is dedicated to advance technology adopted in design and development of modern antenna. Key features • A fairly large number of well labelled diagrams to provide practical understanding of the concepts. • The placement of numericals at appropriate places develops confidence among readers and entuses them further to read in depth to crack any regular or competitive examinations. • Chapter

summary highlights important points for quick recap and revision before examination. • Well-crafted multiple choice questions with answers at the end of each chapter to stimulate thought process and prepare better for viva-voce and competitive examinations. • Appropriate number of unsolved numerical problems with answers to improve problem solving skill of students.

Proceedings of the Fourth ICMEET 2018 Courier Corporation

This book deals with the design and analysis of fractal apertures in waveguides, conducting screens and cavities using numerical electromagnetics and field-solvers. The aim is to obtain design solutions with improved accuracy for a wide range of applications. To achieve this goal, a few diverse problems are considered. The book is organized with adequate space dedicated for the design and analysis of fractal apertures in waveguides, conducting screens and cavities, microwave/millimeter wave applications followed by detailed case-study problems to infuse better insight and understanding of the subject. Finally, summaries and suggestions are given for

future work. Fractal geometries were widely used in electromagnetics, specifically for antennas and frequency selective surfaces (FSS). The self-similarity of fractal geometry gives rise to a multiband response, whereas the space-filling nature of the fractal geometries makes it an efficient element in antenna and FSS unit cell miniaturization. Until now, no efforts were made to study the behavior of these fractal geometries for aperture coupling problems. The aperture coupling problem is an important boundary value problem in electromagnetics and used in waveguide filters and power dividers, slotted ground planes, frequency selective surfaces and metamaterials. The present book is intended to initiate a study of the characteristics of fractal apertures in waveguides, conducting screens and cavities. To perform a unified analysis of these entirely dissimilar problems, the “generalized network formulation of the aperture problems” by Mautz and Harrington was extended to multiple-aperture geometry. The authors consider the problem of coupling between two arbitrary regions coupled together via

multiple apertures of arbitrary shape. MATLAB codes were developed for the problems and validated with the results available in the literature as well as through simulations on ANSOFT's HFSS. Fractal Apertures in Waveguides, Conducting Screens and Cavities Springer Detailed theory, operation and application of devices and circuits 1000 objective type question and answers 150 solved problems 100 exercise problems with solution manual 27 experiments Power consumption details Electronic Devices and Circuits contains the fundamentals of electronic devices and their applications. The book is centred around the basic characteristics, analysis, design and application aspects of conductors, insulators, semi-conductors, resistors, inductors, capacitors, basic network theorems, test and measuring meters, fabrication techniques, diodes, transistors, amplifiers and oscillators. The fundamentals concepts of the subject are described pointwise for easy readability and grasp. Several solved problems, objective-type questions and multiple-choice question with answers, exercise questions with solution manual and a large

number worked out examples, besides 27 experiments conducted for all the engineering and science students are the highlight of the book. The entire content in the book is provided in a logical, orderly and a self-understandable manner.

Antennas and Wave Propagation Springer
This graduate-level physics textbook provides a comprehensive treatment of the basic principles and phenomena of classical electromagnetism. While many electromagnetism texts use the subject to teach mathematical methods of physics, here the emphasis is on the physical ideas themselves. Anupam Garg distinguishes between electromagnetism in vacuum and that in material media, stressing that the core physical questions are different for each. In vacuum, the focus is on the fundamental content of electromagnetic laws, symmetries, conservation laws, and the implications for phenomena such as radiation and light. In material media, the focus is on understanding the response of the media to imposed fields, the attendant constitutive relations, and the phenomena encountered in different types of media such as dielectrics, ferromagnets, and conductors. The text includes applications

to many topical subjects, such as magnetic levitation, plasmas, laser beams, and synchrotrons. *Classical Electromagnetism in a Nutshell* is ideal for a yearlong graduate course and features more than 300 problems, with solutions to many of the advanced ones. Key formulas are given in both SI and Gaussian units; the book includes a discussion of how to convert between them, making it accessible to adherents of both systems. Offers a complete treatment of classical electromagnetism Emphasizes physical ideas Separates the treatment of electromagnetism in vacuum and material media Presents key formulas in both SI and Gaussian units Covers applications to other areas of physics Includes more than 300 problems

A Problem Solving Approach Springer
This volume contains 73 papers presented at ICMEET 2015: International Conference on Microelectronics, Electromagnetics and Telecommunications. The conference was held during 18 - 19 December, 2015 at Department of Electronics and Communication Engineering, GITAM Institute of Technology, GITAM University, Visakhapatnam, INDIA. This volume

contains papers mainly focused on Antennas, Electromagnetics, Telecommunication Engineering and Low Power VLSI Design.

Electronic Devices and Circuits Technical Publications

This book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It includes original research presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2019), organized by the Department of ECE, Raghu Institute of Technology, Andhra Pradesh, India. Written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes around the globe, the papers share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Optical and Wireless Technologies Pearson Education India

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the

undergraduate level. The book allows students outside electrical and electronics engineering to easily

Millimeter Wave and Microwave Microwave Engineering

The book is written for an undergraduate course on the transmission lines and waveguides. It provides comprehensive coverage of four terminal networks, filters, transmission lines and various types of waveguides. The book starts with explaining the symmetrical and asymmetrical four terminal networks which form the basis of filters. Then book provides the detailed discussion of various types of filters. The discussion of composite filters and crystal filter is also included in the book. The book covers the transmission line parameters in detail along with reflection on a line, reflection loss and reflection factor. The chapter on transmission line at radio frequency includes parameters of line at high frequency, standing waves, standing wave ratio, single stub matching, double stub matching and Smith chart. The book covers the various aspects of guided waves between parallel planes. It also provides the discussion of rectangular and

circular waveguides. At the end book incorporates the discussion of resonators. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Tata McGraw-Hill Education

An investigation was made toward evolving a method of two-dimensional antenna pattern synthesis such that antenna specifications involving dimensionality, shape, and the constituent relations can be related to the frequency characteristics. (Author).

Radar Principles Oxford Higher Education

Aimed at a single-semester course on antennas at the undergraduate level, *Antennas and Wave Propagation* provides a lucid explanation of the fundamentals of antennas and propagation. This student-friendly text also includes simple design

procedures along with a large number of examples and exercises.

Basic Electrical and Electronics Engineering: KHANNA PUBLISHING HOUSE

This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps - a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations

included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter
Microwave Engineering Pearson Education India

An advanced treatment of the main concepts of radar. Systematic and organized, it nicely balances readability with mathematical rigor. Many techniques and examples have been chosen from the radar industry (Rayleigh fluctuating targets are used as they yield simple expressions for the probability of detection), and others for their pedagogical value (Costas signals lead the coded radar signals because their ambiguity function can be intuitively deduced). Ordered statistics is covered in more depth than other CFAR techniques because its performance can

be obtained analytically without resorting to simulation methods. Contains many exercises. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Electromagnetic Field Theory and Transmission Lines Technical Publications

The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically. The modern microwave and RF engineer is expected to know customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented in the

Microelectronics, Electromagnetics and Telecommunications PHI Learning Pvt. Ltd.

Highlighting the challenges RF and microwave circuit designers face in their day-to-day tasks, RF and Microwave Circuits, Measurements, and Modeling explores RF and microwave circuit designs in terms of performance and critical design specifications. The book discusses

transmitters and receivers first in terms of functional circuit block and then examines each block individually. Separate articles consider fundamental amplifier issues, low noise amplifiers, power amplifiers for handset applications and high power, power amplifiers. Additional chapters cover other circuit functions including oscillators, mixers, modulators, phase locked loops, filters and multiplexers. New chapters discuss high-power PAs, bit error rate testing, and nonlinear modeling of heterojunction bipolar transistors, while other chapters feature new and updated material that reflects recent progress in such areas as high-volume testing, transmitters and receivers, and CAD tools. The unique behavior and requirements associated with RF and microwave systems establishes a need for unique and complex models and simulation tools. The required toolset for a microwave circuit designer includes unique device models, both 2D and 3D electromagnetic simulators, as well as frequency domain based small signal and large signal circuit and system simulators. This unique suite of tools requires a design procedure that is also distinctive. This book examines not

only the distinct design tools of the microwave circuit designer, but also the design procedures that must be followed to use them effectively.

Design of Machine Elements John Wiley & Sons

The aim of this book is to give an introduction to the fundamental principles of antennas and wave propagation. Unlike other books available, there is more emphasis on mathematical explanation in addition to physical understanding. Physical principles are explained in detail with clear diagrams to support the theory.

Microwave and Radar Engineering

Pearson Education India

Though good books are available but on self-contained concise & comprehensive textbook covering the syllabus of indigenous universities is not available.

The present Microwave Engineering is an attempt in that direction. Starting with the fundamentals, the book discusses:

Microwaves and their Applications;
Microwave Tubes; Microwave Semiconductor Devices; Scattering Matrix Parameters; Microwave Passive Components; Microwave Transmission Lines; Microwave Integrated; Circuits;

Microwave Antennas; and Microwave Measurements

Proceedings of ICMEET 2015 I. K.

International Pvt Ltd

The book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2018), organised by GVP College of Engineering (A), Andhra Pradesh, India. The respective papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world, and share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Hello, Android Tata McGraw-Hill Education Microwave Engineering I. K. International Pvt Ltd

Principles of Electrodynamics Pearson Education India

Microwave and Radar Engineering presents the essential features and focuses on the needs of students who take

up the subject at undergraduate and postgraduate levels of electronics and communications engineering courses. Spread across 17 chapters, the book begins with a discussion of wave equations and builds upon the topics step by step with ample illustrations and examples that delineate the concepts to the student's benefit. The book will also come in handy for aspirants of competitive examinations.

Introduction to Electromagnetic Waves with Maxwell's Equations I. K.

International Pvt Ltd

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric

flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates

the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain,

lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

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