

Annapurna Das And Sisir K Das Microwave Engineering

A practical resource covering both elective and emergency procedures for the practicing vascular and endovascular clinician This book provides medical professionals (vascular surgeons, interventional cardiologists, interventional radiologists, endovascular neurologists, vascular medicine specialists) with a reference guide to the most common and accepted approach to endovascular management of peripheral vascular disease. It also addresses urgent interventions in the acute setting of the various vascular beds, and covers emerging areas such as stroke intervention and endovascular treatment of pulmonary embolism and vascular trauma. Edited by a multidisciplinary team, Endovascular Interventions offers in-depth coverage of the field in seven parts: Overview; Supra-Aortic Intervention in High Risk Patients: Innominate, Subclavian, Carotid, Vertebral and Intracranial Interventions; Interventions of the Aorta; Renal and Mesenteric Interventions; Lower Extremity Interventions; Venous Disease; and Vascular Trauma. Each section covers the technical aspects of the procedures as well as the fundamental clinical aspects which are necessary in the evaluation of patients considered for interventions. Chapters feature illustrations, case studies, key learning points, equipment lists, and sample questions and answers which can be used for Board exam practice. Practical review of vascular and endovascular medicine covering both elective and emergency procedures Illustrated, templated chapters provide rapid answers to questions and include case studies, key learning points, and equipment lists Includes sample questions and answers that are handy for Board exam practice Edited by multidisciplinary experts Endovascular

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Interventions is an excellent review book for all practicing and aspiring vascular and endovascular specialists.

On Rakesh Roshan, actor, director and producer of Bollywood films.

'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.

A self-contained, comprehensive treatment of the fundamentals of microwave circuits and passive devices. Provides up-to-date coverage of transmission lines, guided waves, resonators, reciprocal and non-reciprocal devices, slow-wave structure and filters. Includes a review of the basic electromagnetics required for the understanding of field theory. Diagrams and solved problems reinforce key concepts.

O'Neil's ADVANCED ENGINEERING

MATHEMATICS, 8E makes rigorous mathematical topics accessible to today's learners by emphasizing visuals, numerous examples, and interesting mathematical models. New Math in Context broadens the engineering connections by demonstrating how mathematical concepts are applied to current engineering problems. The reader has the flexibility to select from a variety of topics to study from additional posted web modules. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This conference is tailored for the practising EMC engineer, design/test engineers, technicians, and managers who must ensure their products meet changing global compliance requirements. Technical sessions will feature expert speakers covering fundamentals through advanced level issues of EMC, product standards and regulations.

This book contains the applications of radars, fundamentals and advanced concepts of CW, CW Doppler, FMCW, Pulsed doppler, MTI, MST and phased array radars etc. It also includes effect of different parameters on radar operation, various losses in radar systems, radar transmitters, radar receivers, navigational aids and radar antennas. Key features : -Nine chapters exclusively suitable for one semester course in radar engineering. * More than 100 solved problems. * More than 1000 objective questions with answers. * More than 600 multiple choice questions with answers. * Five model question papers. * Logical and self-understandable system description.

This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results such as inductance of transmission lines calculations can be used for microwave frequencies. Familiarity with vector operations, including

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divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.

This book provides analysis and discusses the design of various MOSFET technologies which are used for the design of Double-Pole Four-Throw (DP4T) RF switches for next generation communication systems. The authors discuss the design of the (DP4T) RF switch by using the Double-Gate (DG) MOSFET, as well as the Cylindrical Surrounding double-gate (CSDG) MOSFET. The effect of HFO₂ (high dielectric material) in the design of DG MOSFET and CSDG MOSFET is also explored. Coverage includes comparison of Single-gate MOSFET and Double-gate MOSFET switching parameters, as well as testing of MOSFETs parameters using image acquisition.

A guide to broadband microstrip antennas, offering information to help you choose and design the optimum broadband microstrip antenna configurations for your applications, without sacrificing other antenna parameters. The text shows you how to take advantage of the light-weight, low volume benefits of these antennas, by providing explanations of the various configurations and simple design equations that help you analyze and design microstrip antennas with speed and confidence. This practical resource presents an understanding of the radiation mechanism and characteristics of microstrip antennas, and provides guidance on designing new types of planar monopole antennas with multi-octave bandwidth. The authors explore how to select and design proper broadband microstrip antenna configurations for compact, tunable, dual-band and circular polarization applications. Moreover, the work compares all the broadband techniques and suggests the most attractive configuration.

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Interest in filter theory and design has been growing with the telecommunications industry since the late nineteenth century. Now that telecommunications has become so critical to industry, filter research has assumed even greater importance at companies and academic institutions around the world. The CRC Handbook of Electrical Filters fills in the gaps for engineers and scientists who need a basic introduction to the subject. Unlike the currently available textbooks, which are filled with detailed, highly technical analysis geared to the specialist, this practical guide provides useful information for the non-specialist about the various types of filters, their design, and applications. The handbook covers approximation theory and methods and introduces CAD packages that perform approximation and synthesis for both analog and digital filters. Also included are design methods for LCR, active-RC, digital, mechanical, and switched capacitor (SC) filters. A thorough survey of current design trends rounds out this complete assessment of a key field of study.

This edition has been revised extensively to provide a comprehensive coverage of all major topics in Microwave Engineering. It thoroughly covers the basic principles, analysis, design and measurement techniques with the help of simple explanations and a large number of solved and unsolved problems

The main objective of this comprehensive text is to introduce the students the physics and the operational principles as well as the characteristics, and applications of the microwave semiconductor devices. These devices are making a revolutionary change in the field of communication and radars. As a result of the accelerating rate of growth of microwave technology in research and industry, students, engineers and scientists

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need to understand the theoretical and experimental design and analysis of these devices. The book also deals with higher frequency microwaves called millimeter waves, which are finding wide applications in ground and satellite communication, radars and missile guidance. Millimeter wave system development is one of the most advanced technologies in radio science, especially in view of the ever increasing demand of communication and saturation of microwave frequency range with increasing number of channels. The book discusses in greater detail about the semiconductor devices such as IMPATT diodes, Gunn diodes, HEMT diodes and FET diodes. It emphasizes on various two and three terminal devices in the microwave and millimeter wave field based on silicon and Groups III-V compound semiconductors. The book is intended to serve as a textbook for undergraduate electronics and electrical engineering students and postgraduate students of physics. It would also be a valuable reference book for professional engineers and physicists.

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,

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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.

A comprehensive introduction to microwave devices and circuits. Includes both physical and mathematical descriptions and many practical illustrations.

For upper-level Electrical Engineering introductory courses in RF Circuit Design and analog integrated circuits. This practical and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. * Provides MATLAB routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors as part of the Smith Chart. * Allows students to implement these software tools on their own PC. All m-files will be included on a bound in CD-ROM. * Presents RF Amplifier Designs, including small and large signal designs, narrow versus broad band, low noise, and many others. * Provides students with useful broad-based knowledge of common amplifier designs used in the industry. * Discusses Matching Networks, such as T and P matching networks and single and double stub matching. It also includes Discrete and Microstrip Line matching techniques with

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computer simulations... * Presents Scattering parameters such as realistic listings of S-parameters for transistors and transmission line. * Highlights practical use of S-parameters in circuit design and performance evaluation. resistor, capacitor, and inductor networks. It also includes simulations in MATLAB to provide graphical display of circuit behavior and performance analysis. * Introduces the Smith Chart as a design tool to monitor electric behavior of circuits. * Introduces the generic forms of Oscillators and Mixers, including negative resistance condition, fixed-frequency, and YIG-tuned designs. * Explains the most common oscillator designs used in many RF systems. * Provides an overview of common filter types, including low, high, bandpass, Butterworth, and Chebyshev filters. * Provides design tools to enable students to develop a host of practically realizable filters. * Discusses the high-frequency behavior of common circuit components, including the behavior of resistors, capacitors, and inductors. * Helps students understand the difference of low versus high frequency responses. * Introduces the theory of distributed parameters through a discussion on Transmission Lines. This includes line parameters, sources and load terminations, and voltage and current waves. circuits. * Analyzes active/passive RF circuits through various network description models, especially the two-port network. This discussion also covers impedance, admittance, ABCD, h-parameter networks, and interrelations. * Includes a number of important pedagogical features--Intersperses examples throughout each chapter, and includes self-written MATLAB routines

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and circuit simulations by a commercial RF software package. * Assists students by clarifying and explaining the theoretical developments.

Microwave Engineering Tata McGraw-Hill Education
Microwave Engineering 2E Tata McGraw-Hill Education
Antenna and Wave Propagation Tata McGraw-Hill Education
MICROWAVE

ENGINEERING 2e Tata McGraw-Hill Education

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

Propagation Through Waveguides Rectangular waveguide, Solution of wave equation in rectangular co-ordinates, Derivation of field equations for TE and TM modes degenerate and dominant mode, Power transmission and power loss, Excitation of waveguides, Non-existence of TEM mode in waveguides, Introduction to circular waveguides, Stripline and microstripline. Microwave Cavity Resonators Rectangular and cylindrical cavities,

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Quality factor, Excitation of cavities. Microwave Components Waveguide couplings, Bends and twists, Transitions, Directional couplers, Hybrid couplers, Matched load attenuators and phase shifters, E-plane, H-plane and Hybrid tees, hybrid ring, Waveguide discontinuities, Windows, Irises and tuning screws, Detectors, Wave meters; Isolators and circulators, Tunable detector, Slotted line carriage, VSWR meter, Scattering matrix. Microwave Measurements Measurement of frequency, Wave length, VSWR, Impedance, Attenuation, Low and high power, Radiation pattern. Limitation of conventional active devices at microwave frequency. Microwave Tubes Klystron, Reflex Klystron, Magnetron, TWT, BWO : Their schematic, Principle of operation, Performance characteristics and applications. Microwave Semiconductor Devices PIN diode, Tunnel diode, LSA diode, Varactor diode, Gunn devices, IMPATT and TRAPATT, Their principle of operation, Characteristics and applications. Principles of Radar Radar block diagram operation, Radar range equation, Radar frequencies, Pulse and C.W. radar, Introduction to Doppler and M.T. Radar, Applications. Radar Transmitters and Devices Block diagram of radar receiver for C.W. and pulse radar, front end amplifier, Receiver noise figure, Duplexers radar antennas, Radar displays, Introduction to radar clutter.

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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

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