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Appropriate for upper level undergraduate or graduate courses in microwave transistor amplifiers and oscillators. It would also be useful for short-courses in companies that design and produce these devices. A unified presentation of the analysis and design of microwave transistor amplifiers (and oscillators) -- using scattering parameters techniques.

Provides a hands-on approach to Radio Frequency and Microwave theory and design This book provides engineers with a comprehensive guide to Radio Frequency (RF) circuit analysis and wave

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propagation in order to be able to design new systems. Emphasis is placed on fundamental concepts, engineering techniques, and the regular and intelligent use of the computer design tools. This book contains a review of wireless history and engineering fundamentals including complex numbers, alternating-current theory, and the logarithmic basis of decibels. The important topics in microwave design theory are discussed, such as transmission lines, the Smith Chart, and matrix algebra. Computer generated examples are used to provide insight into the basic performance, bandwidth, and manufacturing yield of RF and microwave networks. The author also provides a broad presentation of electromagnetic (EM) field theory

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tailored to the needs of the microwave and RF engineer. Explains how design challenges would be attacked in a real engineering environment Reviews AC analysis, Kirchhoff's laws, RLC elements, skin effect, and introduction to the use of computer simulation software •Covers filter designs for Butterworth, Chebyshev, Bessel and elliptic responses, Kuroda's identities, and Richard's transformation Provides in-text exercises to emphasize a practical approach Includes access to a companion site hosting an instructor's manual High Frequency Technique: An Introduction to RF and Microwave Design and Computer Simulation is a reference for RF, microwave, and wireless engineers, and graduate students in

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electrical and computer engineering. This book presents the main phenomenon of propagation of electromagnetic waves in the most used frequency bands. It provides the background covering wave propagation, antennas, atmospheric and ionospheric influences, terrain influence, and weather conditions and their effect on signal transmission.

Microwave Devices and Circuits
ESSA Science and Engineering, July
13, 1965 to June 30, 1967

Fundamentals and Applications of
Ultrasonic Waves

Microwave Measurements, 3rd
Edition

Introduction to Integral Calculus

This comprehensive survey of microwaves,
components, and devices for the
junior/senior course on microwaves

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focuses on microwave circuits and solid-state devices. Coverage of thermionics is included. Flexibility allows professors to assign chapters in any order. End-of-chapter application questions demand that students use mathematical and technical skills, as well as creativity and ingenuity. 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

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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. CD-ROM contains: PUFF 2.1 for construction and evaluation of circuits. Microstrip Filters for RF/Microwave Applications High Frequency and Microwave Engineering

Planar Microwave Engineering
ESSA Science and Engineering, July 31,
1965 to June 30, 1967

Written at an intermediate level in a way that is easy to understand, Fundamentals and Applications of Ultrasonic Waves,

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Second Edition provides an up-to-date exposition of ultrasonics and some of its main applications. Designed specifically for newcomers to the field, this fully updated second edition emphasizes underlying physical concepts over mathematics. The first half covers the fundamentals of ultrasonic waves for isotropic media. Starting with bulk liquid and solid media, discussion extends to surface and plate effects, at which point the author introduces new modes such as Rayleigh and Lamb waves. This focus on only isotropic media simplifies the usually complex mathematics involved, enabling a clearer understanding of the underlying physics to avoid the complicated tensorial description characteristic of crystalline media. The second part of the book addresses a broad spectrum of industrial and research applications, including quartz crystal resonators, surface acoustic wave

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devices, MEMS and microacoustics, and acoustic sensors. It also provides a broad discussion on the use of ultrasonics for non-destructive evaluation. The author concentrates on the developing area of microacoustics, including exciting new work on the use of probe microscopy techniques in nanotechnology. Focusing on the physics of acoustic waves, as well as their propagation, technology, and applications, this book addresses viscoelasticity, as well as new concepts in acoustic microscopy. It updates coverage of ultrasonics in nature and developments in sonoluminescence, and it also compares new technologies, including use of atomic force acoustic microscopy and lasers. Highlighting both direct and indirect applications for readers working in neighboring disciplines, the author presents particularly important sections on the use of microacoustics and acoustic

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nanoprobes in next-generation devices and instruments.

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

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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.

Advanced, specialized coverage of microstrip filter design *Microstrip Filters for RF/Microwave Applications* is the only professional reference focusing solely on microstrip filters. It offers a unique and comprehensive treatment of filters based on the microstrip structure and includes full design methodologies that are also applicable to waveguide and other transmission line filters. The authors include coverage of new configurations with advanced filtering characteristics, new design techniques, and methods for

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filter miniaturization. The book utilizes numerous design examples to illustrate and emphasize computer analysis and synthesis while also discussing the applications of commercially available software. Other highlights include: Lowpass and bandpass filters Highpass and bandstop filters Full-wave electromagnetic simulation Advanced materials and technologies Coupled resonator circuits Computer-aided design for low-cost/high-volume production Compact filters and filter miniaturization Microstrip Filters for RF/Microwave Applications is not only a valuable design resource for practitioners, but also a handy reference for students and researchers in microwave engineering.

MICROWAVE ENGINEERING
A Practical Guide to Theory,
Measurement, and Circuits
Eight Amazing Engineering Stories

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Proceedings of First International
Conference on Computational Electronics
for Wireless Communications

Equipment Acceptable for Licenses

This book presents the
selected peer-reviewed
proceedings of the
International Conference on
Innovative Engineering Design
(ICOIED 2020). The contents
provide a multidisciplinary
approach for the development
of innovative product design
and their benefits for the
society. The book presents
latest advances in various
fields like design process,
service development,
micro/nano technology,

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sensors and MEMS, and sustainability in engineering design. This book can be useful for students, researchers, and professionals interested in innovative product/process design and development. An accessible introduction to the fundamentals of calculus needed to solve current problems in engineering and the physical sciences. Integration is an important function of calculus, and Introduction to Integral Calculus combines fundamental concepts with scientific problems to develop

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Intuition and skills for solving mathematical problems related to engineering and the physical sciences. The authors provide a solid introduction to integral calculus and feature applications of integration, solutions of differential equations, and evaluation methods. With logical organization coupled with clear, simple explanations, the authors reinforce new concepts to progressively build skills and knowledge, and numerous real-world examples as well as intriguing applications help readers to better understand

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the connections between the theory of calculus and practical problem solving. The first six chapters address the prerequisites needed to understand the principles of integral calculus and explore such topics as anti-derivatives, methods of converting integrals into standard form, and the concept of area. Next, the authors review numerous methods and applications of integral calculus, including: Mastering and applying the first and second fundamental theorems of calculus to compute definite integrals Defining the natural

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logarithmic function using calculus Evaluating definite integrals Calculating plane areas bounded by curves Applying basic concepts of differential equations to solve ordinary differential equations With this book as their guide, readers quickly learn to solve a broad range of current problems throughout the physical sciences and engineering that can only be solved with calculus. Examples throughout provide practical guidance, and practice problems and exercises allow for further development and fine-tuning

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of various calculus skills.

Introduction to Integral Calculus is an excellent book for upper-undergraduate calculus courses and is also an ideal reference for students and professionals who would like to gain a further understanding of the use of calculus to solve problems in a simplified manner.

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

Pipe Line News

An Introduction to RF and

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Microwave Design and
Computer Simulation
Transmission Lines and Wave
Propagation
Systematic Studies with
Engineering Applications for
Beginners
ESSA Science and
Engineering

**Filled with illustrations,
examples and
approximately 300
homework problems, this
accessible and
informative text provides
an extensive treatment of
electromagnetism and
microwave engineering
with particular emphasis**

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on microwave and telecommunications applications. Also stresses computational electromagnetics through the use of MathCad and finite element methods to elucidate design problems, analysis and applications. Tutorials on the use of MathCad and PSpice are included. An accessible textbook for students and valuable reference for engineers already in the field. The increase of consumer electronics and communications

applications using Radio Frequency (RF) and microwave circuits has implications for oscillator design. Applications working at higher frequencies and using novel technologies have led to a demand for more robust circuits with higher performance and functionality, but decreased costs, size and power consumption. As a result, there is also a need for more efficient oscillators. This book presents up to date information on all aspects

of oscillator design, enabling a selection of the best oscillator topologies with optimized noise reduction and electrical performance. RF and Microwave Transistor Oscillator Design covers: analyses of non-linear circuit design methods including spectral-domain analysis, time-domain analysis and the quasilinear method; information on noise in oscillators including chapters on varactor and oscillator frequency tuning, CMOS voltage-

controlled oscillators and wideband voltage-controlled oscillators; information on the stability of oscillations, with discussions on the stability of multi-resonant circuits and the phase plane method; optimized design and circuit techniques, beginning with the empirical and analytic design approaches, moving on to the high-efficiency design technique; general operation and design principles of oscillators, including a section on the

**historical aspects of
oscillator configurations.**

**A valuable reference for
practising RF and
Microwave designers and
engineers, RF and
Microwave Transistor
Oscillator Design is also
useful for lecturers,
advanced students and
research and design
(R&D) personnel.**

**A large international
conference in Electrical
Engineering and Applied
Computing was just held
in London, 30 June - 2
July, 2010. This volume
will contain revised and**

extended research articles written by prominent researchers participating in the conference. Topics covered include Control Engineering, Network Management, Wireless Networks, Biotechnology, Signal Processing, Computational Intelligence, Data Mining, Computational Statistics, Internet Computing, High Performance Computing, and industrial applications. The book will offer the states of arts of tremendous

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**advances in electrical
engineering and applied
computing and also serve
as an excellent reference
work for researchers and
graduate students
working on electrical
engineering and applied
computing**

Passive Circuits

**Electrical Engineering
and Applied Computing**

Microwave Antenna

Theory and Design

Foundations for

Microwave Engineering

Wireless Networks

**Information Processing
and Systems**

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Introduction to Electromagnetic
and Microwave Engineering John
Wiley & Sons

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into

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how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics

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(e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work. This book includes high-quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications (ICCWC 2021), held at National Institute of Technology, Kurukshetra, Haryana,

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India, during June 11-12, 2021.

The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and wireless networks.

RF and Microwave Transistor
Oscillator Design

High Frequency Techniques
Analysis and Design

Microwave Transistor Amplifiers

First International Multi Topic

Conference, IMTIC 2008 Jamshoro,

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Pakistan, April 11-12, 2008

Revised Papers

A unified presentation of the analysis and design of microwave transistor amplifiers (and oscillators) -- using scattering parameters techniques.

FEATURES: A clear and straightforward presentation designed to be comprehensive. A self-contained book. Examples based on practical designs. Over 300 figures, 153 problems, and 14 appendices. NEW TO THIS EDITION: NEW-- Presents material on: transmission-lines concepts; power waves and generalized scattering parameters; measurements of

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scattering parameters; bipolar and field-effect transistors; power gain expressions; constant VSWR circles; gain, noise, and VSWR design trade offs; broadband amplifiers, high-power amplifiers; oscillator theory, and DROs.

NEW-- A new appendix using CAD methods. NEW-- A 65% increase in the number of problems and figures.

Eight Amazing Engineering Stories reveals the stories behind how engineers use specific elements to create the material world around us. In eight chapters, the EngineerGuy team exposes the magnificence of the innovation and engineering of

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digital camera imagers, tiny accelerometers, atomic clocks, enriched uranium, batteries, microwave ovens, lasers, and anodized metals. In addition, short primers cover the scientific principles underlying the engineering, including waves, nuclear structure, and electronic transitions. "In Depth" sections cover entropy, semiconductors, and the mathematics of capacitors. Eight Amazing Engineering Stories forms the basis of the fourth series of EngineerGuy videos found online.

Pozar's new edition of Microwave Engineering includes more

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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

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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.

Experimental Mechanics

Using the Elements to Create

Extraordinary Technologies

Engineering Point-to-Point

Microwave Systems

Everything You Should Have

Learned in School...but Probably

Didn't

Government-wide Index to

Federal Research & Development

Reports

***The first book to cover
all engineering aspects***

of microwave communication path design for the digital age Fixed point-to-point microwave systems provide moderate-capacity digital transmission between well-defined locations. Most popular in situations where fiber optics or satellite communication is impractical, it is commonly used for cellular or PCS site interconnectivity where digital connectivity is needed but not

economically available from other sources, and in private networks where reliability is most important. Until now, no book has adequately treated all engineering aspects of microwave communications in the digital age. This important new work provides readers with the depth of knowledge necessary for all the system engineering details associated with fixed point-to-point microwave radio path design: the why, what,

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and how of microwave transmission; design objectives; engineering methodologies; and design philosophy (in the bid, design, and acceptance phase of the project). Written in an easily accessible format, Digital Microwave Communication features an appendix of specialized engineering details and formulas, and offers up chapter coverage of: A Brief History of Microwave Radio Microwave Radio Overview System

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**Components Hypothetical
Reference Circuits
Multipath Fading Rain
Fading Reflections and
Obstructions Network
Reliability Calculations
Regulation of Microwave
Radio Networks Radio
Network Performance
Objectives Designing and
Operating Microwave
Systems Antennas Radio
Diversity Ducting and
Obstruction Fading
Digital Receiver
Interference Path
Performance Calculations
Digital Microwave
Communication:**

Engineering Point-to-Point Microwave Systems will be of great interest to engineers and managers who specify, design, or evaluate fixed point-to-point microwave systems associated with communications systems and equipment manufacturers, independent and university research organizations, government agencies, telecommunications services, and other users.

This thoroughly revised and updated edition, while retaining the major contents of the previous edition, presents the latest information on the various aspects of microwave engineering. With improved organization and enriched contents, the book explores expanded and updated information on the basic principles, characteristics and applications of commonly used devices in the design of various

microwave systems. The book commences with a discussion on microwave basics, EM wave theory, transmission line theory, hollow pipe waveguides, microwave junctions and goes on to provide in-depth coverage of waveguide components, klystrons, magnetrons and TWTs. The book focuses on the solid-state devices and microwave measurements as well. The book has an added advantage of exercise section involving essay type

questions, exercise problems, fill in the blanks, match the following and multiple choice questions, designed to reinforce the students' understanding of the concepts. This tailor-made book is appropriate for the undergraduate and postgraduate students of electronics and communication engineering. Highlights of the Second Edition • Two new chapters, namely, Klystrons, and Magnetrons and TWTs are

incorporated into the book. • Several sections like coaxial line analysis, microwave link analysis, microwave bench design, measurement of phase shift, measurement of dielectric constant, and network analyzers have been introduced into the book. • Numerous questions and solved problems have been added to the exercise section of each chapter. 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

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**undergraduate and
postgraduate students of
Electronics and
Communication
Engineering.**

**Avalanche Transit-time
Devices**

ICCCWC 2021

**Digital Microwave
Communication**

**Electrical Engineering
101**

Land & Space

Radiocommunications

*The international multi-
topic conference IMTIC
2008 was held in
Pakistan during April
11-12, 2008. It was a*

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joint venture between Mehran University, Jamshoro, Sindh and Aalborg University, Esbjerg, Denmark. Apart from the two-day main event, two workshops were also held: the Workshop on Creating Social Semantic Web 2.0 Information Spaces and the Workshop on Wireless Sensor Networks. Two hundred participants registered for the main conference from 24 countries and 43 papers were presented; the two workshops had

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overwhelming support and over 400 delegates registered. IMTIC 2008 served as a platform for international scientists and the engineering community in general, and in particular for local scientists and the engineering community to share and cooperate in various fields of interest. The topics presented had a reasonable balance between theory and practice in multidisciplinary topics. The conference

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also had excellent topics covered by the keynote speeches keeping in view the local requirements, which served as a stimulus for students as well as experienced participants. The Program Committee and various other committees were experts in their areas and each paper went through a double-blind peer review process. The conference received 135 submissions of which only 46 papers were selected for

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presen- tion: an acceptance rate of 34%.
Transmission Lines and Wave Propagation, Fourth Edition helps readers develop a thorough understanding of transmission line behavior, as well as their advantages and limitations. Developments in research, programs, and concepts since the first edition presented a demand for a version that reflected these advances. Extensively revised, the fourth

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edition of this bestselling text does just that, offering additional formulas and expanded discussions and references, in addition to a chapter on coupled transmission lines. What Makes This Text So Popular? The first part of the book explores distributed-circuit theory and presents practical applications. Using observable behavior, such as travel time, attenuation, distortion, and reflection from

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terminations, it analyzes signals and energy traveling on transmission lines at finite velocities. The remainder of the book reviews the principles of electromagnetic field theory, then applies Maxwell's equations for time-varying electromagnetic fields to coaxial and parallel conductor lines, as well as rectangular, circular, and elliptical cylindrical hollow metallic waveguides, and fiber-optic cables. This

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progressive organization and expanded coverage make this an invaluable reference. With its analysis of coupled lines, it is perfect as a text for undergraduate courses, while graduate students will appreciate it as an excellent source of extensive reference material. This Edition Includes: An overview of fiber optic cables emphasizing the principle types, their propagating modes, and dispersion Discussion of the role of total

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*internal reflection at
the core/cladding
interface, and the
specific application of
boundary conditions to a
circularly symmetrical
propagating mode A
chapter on coupled
transmission lines,
including coupled-line
network analysis and
basic crosstalk study
More information on
pulse propagation on
lines with skin-effect
losses A freeware
program available online
Solutions manual
available with*

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