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This is the general definition of a transmission line. We will view the transmission line, the generator, and the load in general terms. ... "Handbook of Microwave Techniques and Equipment", Prentice-Hall, Inc., Englewood Cliffs, NJ., 1972. ... "Transmission Line Design Handbook", Artech House, Boston, 1991.

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An excellent blend of theory with practical applications especially if you are interested in PCB design. This is a reference book packed with design techniques starting with transmission line theory and covering paired wires, all manner of coaxial lines and much more dealing with microstrip, stripline in all of their varieties.

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This is by no means a complete reference on any of these transmission line structures. One of the most complete references available, and highly recommend to both layout designers and electrical engineers, is: Transmission Line Design Handbook. Brian C. Wadell. Artech House, 1991. ISBN 0-89006-436-9

Transmission Lines in RF PCB Design

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Optimum design of a novel ultra-wideband multilayer microstrip hairpin filter is presented, providing for harmonic suppression and impedance matching between source and load impedances. The theory of N-coupled transmission lines is employed to obtain an equivalent circuit for development of a design procedure based on the method of least squares. A prototype model of proposed two-layer filter ...

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The Transmission Line Design Handbook consolidates and distills key design data from over 600 original sources. It features 800 equations, 220 illustrations, and 610 references.

This multimedia eBook establishes a solid foundation in the essential principles of how signals interact with transmission lines, how the physical design of interconnects affects transmission line properties, and how to interpret single-ended and differential time domain reflection (TDR) measurements to extract important figures of merits and avoid common mistakes. This book presents an intuitive understanding of transmission lines. Instructional videos are provided in every chapter that cover important aspects of the interconnect design and characterization process. This video eBook helps establish foundations for designing and characterizing the electrical properties of interconnects to explain in a simplified way how signals propagate and interact with interconnects and how the physical design of transmission structures will impact performance. Never be intimidated by impedance or differential pairs again.

Since the second edition of this book was published in 1996, planar transmission line technology has progressed considerably due to developments in ultrawideband (UWB) communications, imaging, and RFID

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applications. In addition, the simultaneous demands for compactness of wireless electronic devices while meeting improved performance requirements, necessitates increased use of computer-aided design, simulation, and analysis by microwave engineers. This book is written to help engineers successfully meet these challenges. Details include the development of governing equations, basis functions, Green's function and typical results. More than 1200 equations supplement the text. Special attention is given to the use of simulation software in the design of complex devices and understanding the connection between data collected from simulation software and the actual design process. The book is primarily intended for microwave design engineers and R&D specialists who need to employ planar transmission lines in designing distributed circuits and antenna systems for a wide range of wireless applications. Advanced undergraduate and graduate students in electronics and telecommunication engineering will also welcome this addition to your library.

Provides a comprehensive discussion of planar transmission lines and their applications, focusing on physical understanding, analytical approach, and circuit models Planar transmission lines form the core of the modern high-frequency communication, computer, and other related technology. This advanced text gives a complete overview of

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the technology and acts as a comprehensive tool for radio frequency (RF) engineers that reflects a linear discussion of the subject from fundamentals to more complex arguments. Introduction to Modern Planar Transmission Lines: Physical, Analytical, and Circuit Models Approach begins with a discussion of waves on transmission lines and waves in material medium, including a large number of illustrative examples from published results. After explaining the electrical properties of dielectric media, the book moves on to the details of various transmission lines including waveguide, microstrip line, co-planar waveguide, strip line, slot line, and coupled transmission lines. A number of special and advanced topics are discussed in later chapters, such as fabrication of planar transmission lines, static variational methods for planar transmission lines, multilayer planar transmission lines, spectral domain analysis, resonators, periodic lines and surfaces, and metamaterial realization and circuit models. Emphasizes modeling using physical concepts, circuit-models, closed-form expressions, and full derivation of a large number of expressions Explains advanced mathematical treatment, such as the variation method, conformal mapping method, and SDA Connects each section of the text with forward and backward cross-referencing to aid in personalized self-study Introduction to Modern Planar Transmission Lines is an ideal book for senior undergraduate and graduate students

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of the subject. It will also appeal to new researchers with the interdisciplinary background, as well as to engineers and professionals in industries utilizing RF/microwave technologies.

This is the first point of reference for the communications industries. It offers an introduction to a wide range of topics and concepts encountered in the field of communications technology. Whether you are looking for a simple explanation, or need to go into a subject in more depth, the Communications Technology Handbook provides all the information you need in one single volume. This second edition has been updated to include the latest technology including: Video on Demand Wire-less Distribution systems High speed data transmission over telephone lines Smart cards and batteries Global positioning Systems The contents are ordered initially by communications systems. This is followed by an introduction to each topic and goes on to provide more detailed information in alphabetical order. Every section contains an explanation of common terminology, and further references are provided. This approach offers flexible access to information for a variety of readers. Those who know little about communications professionals, the book constitutes a handy reference source and a way of finding out about related technologies. The book addresses an international audience by referring to all systems and standards

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throughout. This book has been revised to include new sections on: *
Video on demand * Wire-less distribution systems * High speed data
transmission over telephone lines * Smart cards * Global positioning
systems * provides a basic understanding of a wide range of topics *
offers a flexible approach for beginners and specialists alike *
addresses an international audience by referring to all systems and
standards throughout

In chapters culled from the popular and critically acclaimed
Electromagnetic Compatibility Handbook, Transmission Lines, Matching,
and Crosstalk provides a tightly focused, convenient, and affordable
reference for those interested primarily in this subset of topics.
Author Kenneth L. Kaiser demystifies transmission lines, matching, and
crosstalk and explains the source and limitations of the
approximations, guidelines, models, and rules-of-thumb used in this
field. The material is presented in a unique question-and-answer
format that gets straight to the heart of each topic. The book
includes numerous examples and uses Mathcad to generate all of the
figures and many solutions to equations. In many cases, the entire
Mathcad program is provided.

This newly revised second edition provides a current, comprehensive

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treatment of the subject with a focus on applying practical knowledge to real-world networks. It includes a wealth of important updates, including discussions on backhaul capacity limitations, ethernet over radio, details on the latest cellular radio standards (2.5G, 3G, and 4G). You also learn about recent changes in spectrum management, including the availability of unlicensed bands and new mm band frequencies between 70 and 90 GHz. Additionally, you find more details on the fundamentals of antennas, especially at VHF/UHF levels. Written in an easy-to-understand style, the author provides practical guidelines based on hands-on experience. You find valuable assistance in designing and planning SDH/SONET broadband networks, wireless local loop networks, and backhaul for mobile radio networks. Moreover, this authoritative volume covers frequency planning for radio networks, digital radio equipment characteristics, and fading in radio systems. Using practical case studies, Microwave Radio Transmission Design Guide, Second Edition gives you proven advice that helps you save time and money when developing new networks, and reduces your risk of encountering problems during design and planning.

Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem. Beginners lack the expertise required to understand highly specialized treatments of individual

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Library This is especially problematic for a field as broad as electromagnetics, which propagates into many diverse engineering fields. The time h

By 1990 the wireless revolution had begun. In late 2000, Mike Golio gave the world a significant tool to use in this revolution: The RF and Microwave Handbook. Since then, wireless technology spread across the globe with unprecedented speed, fueled by 3G and 4G mobile technology and the proliferation of wireless LANs. Updated to reflect this tremendous growth, the second edition of this widely embraced, bestselling handbook divides its coverage conveniently into a set of three books, each focused on a particular aspect of the technology. Six new chapters cover WiMAX, broadband cable, bit error ratio (BER) testing, high-power PAs (power amplifiers), heterojunction bipolar transistors (HBTs), as well as an overview of microwave engineering. Over 100 contributors, with diverse backgrounds in academic, industrial, government, manufacturing, design, and research reflect the breadth and depth of the field. This eclectic mix of contributors ensures that the coverage balances fundamental technical issues with the important business and marketing constraints that define commercial RF and microwave engineering. Focused chapters filled with formulas, charts, graphs, diagrams, and tables make the information

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easy to locate and apply to practical cases. The new format, three tightly focused volumes, provides not only increased information but also ease of use. You can find the information you need quickly, without wading through material you don't immediately need, giving you access to the caliber of data you have come to expect in a much more user-friendly format.

Based on Bahl and Bhartia's popular 1980 classic, *Microstrip Antennas*, this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna. After addressing essential microchip antenna theory, the authors highlight current design and engineering practices, emphasizing the most pressing issues in this area, including broadbanding, circular polarization, and active microstrip antennas in particular. Special design challenges, ranging from dual polarization, high bandwidth, and surface wave mitigation, to choosing the proper substrate, and shaping an antenna to achieve desired results are all covered.

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