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Lossy transmission lines are the norm on circuit boards, especially when signaling over narrow trace at high frequencies, where skin effect and dielectric losses cause signal distortion. As we'll see ...

Chapter 5: Transmission Lines

Remote power/sensor signal transmission ... or PLC via multiconductor polyurethane cable. The coil in the local head chops and converts the DC supply voltage into an oscillating signal so that it can ...

Understanding non-contact transmission of power and sensor signals

Figure 3.22: Common, multiconductor, planar transmission lines and their TEM mode E-field distributions: (a) parallel-plate, (b) microstrip, (c) stripline, (d) coplanar waveguide, and (e) slot line.

3.5: Planar Transmission Lines

This goes for both single-wire and multiconductor designs ... of a stress-

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strain diagram for catheter design are the elastic limit and the slope of the line up to the elastic limit value. The elastic ...

Microwire Use in Catheter-Based Medical Device Applications, Part 2 all kinds of contact-making disconnectible and non-disconnectible electric line connectors, coupling devices, lamp or similar holders or current collectors for all kinds of electric lines, cables or ...

Volume 1: Packaging is an authoritative reference source of practical information for the design or process engineer who must make informed day-to-day decisions about the materials and processes of microelectronic packaging. Its 117 articles offer the collective knowledge, wisdom, and judgement of 407 microelectronics packaging experts-authors, co-authors, and reviewers-representing 192 companies, universities, laboratories, and other organizations. This is the inaugural volume of ASMAs all-new ElectronicMaterials Handbook series, designed to be the Metals Handbook of electronics technology. In over 65 years of publishing the Metals Handbook, ASM has developed a unique editorial method of compiling large technical reference books. ASMAs access to leading materials technology experts enables to organize these books on an industry consensus basis. Behind every article. Is an author who is a top expert in its specific subject area. This multi-author approach ensures the best, most timely information throughout. Individually selected panels of 5 and 6 peers review each article for technical accuracy, generic point of view, and completeness. Volumes in the Electronic Materials Handbook series are multidisciplinary, to reflect industry practice applied in integrating multiple technology disciplines necessary to any program in advanced electronics. Volume 1: Packaging focusing on the middle level of the electronics technology size spectrum, offers the greatest practical value to the largest and broadest group of users. Future volumes in the series will address topics on larger (integrated electronic assemblies) and smaller (semiconductor materials and devices) size levels.

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Diode Lasers and Photonic Integrated Circuits, Second Edition provides a comprehensive treatment of optical communication technology, its principles and theory, treating students as well as experienced engineers to an in-depth exploration of this field. Diode lasers are still of significant importance in the areas of optical communication, storage, and sensing. Using the the same well received theoretical foundations of the first edition, the Second Edition now introduces timely updates in the technology and in focus of the book. After 15 years of development in the field, this book will offer brand new and updated material on GaN-based and quantum-dot lasers, photonic IC technology, detectors, modulators and SOAs, DVDs and storage, eye diagrams and BER concepts, and DFB lasers. Appendices will also be expanded to include quantum-dot issues and more on the relation between spontaneous emission and gain.

NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976, pre-dating the prestigious INIS database, which began in 1970. NSA existed as a printed product (Volumes 1-33) initially, created by DOE's predecessor, the U.S. Atomic Energy Commission (AEC). NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors, plus other agencies and international organizations, universities, and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings, and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.

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This book discusses the analysis, circuit modeling, and applications of transmission lines loaded with electrically small resonators (mostly resonators inspired by metamaterials), focusing on the study of the symmetry-related electromagnetic properties of these loaded lines. It shows that the stopband functionality (resonance) that these lines exhibit can be controlled by the relative orientation between the line and the resonator, which determines their mutual coupling. Such resonance controllability, closely related to symmetry, is essential for the design of several microwave components, such as common-mode suppressed differential lines, novel microwave sensors based on symmetry disruption, and spectral signature radio-frequency barcodes. Other interesting aspects, such as stopband bandwidth enhancement (due to inter-resonator coupling, and related to complex modes) and magnetoelectric coupling between the transmission lines and split-ring resonators, are also included in the book.

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