Partially Filled Rectangular Waveguide

ARFTG Conference Digest
Scientific and Technical Aerospace Reports
Soviet Physics-collection
Towards Multimedia Personal Communications Proceedings
Dissertation Abstracts
International European Microwave Conference
Third Generation Communication Systems
Electromagnetic Fields in Multilayered Structures
The Transactions of the Institute of Electronics and Communication Engineers of Japan
Electromagnetic Material Characterization Using a Partially Filled Rectangular Waveguide
Dominant-mode Propagation Constant in Rectangular Waveguides Loaded with Dielectric Slabs
Development of Passive Components for Millimeter-wave Circuits
Electromagnetic Material Characterization of a PEC Backed Lossy Simply Media Using a Rectangular Waveguide Resonant Slot Technique
Coupled Electromagnetic Thermal and Kinetic Modeling for Microwave Processing of Polymers with Temperature- and Cure-dependent Permittivity Using 3D FEM
Radio Electronics and Communications Systems
Radio Engineering & Electronic Physics Design and Analysis of Transitions From Rectangular Waveguide to Layered Ridge Dielectric Waveguide
Advances in Microwaves
International Journal of Infrared and Millimeter Waves
Computer Program for Mode Search in Partially-filled Waveguide
IRE Transactions on Microwave Theory and Techniques
IEEE Transactions on Antennas and Propagation
International Aerospace Abstracts
Electronics Express
Hyperthermia in Cancer Therapy
Microwave Journal
Conference Proceedings
Microwave and Optical Transmission
Iterative and Self-adaptive Finite-elements in Electromagnetic Modeling
IEICE Transactions on Electronics
Digest Proceedings of the National Electronics Conference
Journal of Communications Technology & Electronics
Finite Element Method for Eigenvalue Problems in Electromagnetics
Millimeter Wave and Microwave Numerical S-parameter Extraction and Characterization of Inhomogeneously Filled Waveguides
Theory of Waveguides
Soviet Journal of Physics

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Transitions from rectangular waveguide to layered ridge dielectric waveguide are studied both experimentally and theoretically. In addition, a design procedure is given for each transition. The analysis and design procedures are valid for transitions between rectangular waveguide and other open dielectric waveguides such as Image Guide, Insulated Image Guide, Dielectric Ridge Guide, and Inverted Strip Dielectric Waveguide. It is shown that for small dielectric waveguides such as a Layered Ridge Dielectric Waveguide, a transition which is comprised of a tapered ridge waveguide reduces the radiation loss by at least 1 dB.
Beside technological issues, this book discusses the administrative and industrial aspects of third generation mobile communications. The authors emphasize existing problems and propose solutions. They provide the most comprehensive and topical information on 3G mobile communications currently available. As the first wave of third-generation communication devices arrives, technological and societal effects will be widespread. The ability to communicate via hand-held devices voice, data, and video raises many challenges and questions. Beside detailed looks at technological issues, from the system protocol to implementation technologies, this book discusses the administrative and industrial aspects of third-generation mobile communications. The authors emphasize existing problems and propose solutions. They seek to provide the most comprehensive and topical information on 3G mobile communications currently available. Chapters offer an overview of wireless technology and terminology, protocols for mobility management, the safety of radio-frequency energy, WLAN (wireless local area networks), multiple access schemes, and microwave photonics. It is intended as an introduction and reference for engineers entering the field of wireless communications.
Development of Passive Components for Millimeter-wave Circuits

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Advances in Microwaves

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Computer Program for Mode Search in Partially-filled Waveguide
Advances in Microwaves, Volume 1 is a collection of papers dealing with the design and fabrication of a two-mile accelerator, optical waveguides, and directional couplers. One paper describes the design and fabrication of the disk-loaded wave guide, which serves as the accelerating structure, of the Stanford two-mile accelerator. Another paper discusses the basic principles of guided propagation, particularly the properties of the confocal lens systems or the "beam guide" variants. One paper describes the main types of directional couplers (namely, waveguide directional couplers, TEM-Mode directional couplers) to help scientists and researchers determine a particular design. Some papers discuss singular integral equations to solve waveguide problems, the application of Lie algebraic theory to microwave networks, and partially filled waveguides and surface waveguides of rectangular cross section. One paper explains the application of the singular integral equation method to rectangular...
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waveguides, including the infinite parallel plate configuration. Another paper cites the exponentially tapered transmission line as an example to show the application of Lie algebras in solving problems related to the microwave field. The collection is suitable for people in the field of applied mathematics, nuclear physics, quantum mechanics, and applied physics.

Microwave and Optical Transmission

Iterative and Self-adaptive Finite-elements in Electromagnetic Modeling

IEICE Transactions on Electronics

This self-contained book provides techniques for use in determining electromagnetic fields in layered dielectric media. You'll find useful problem sets and practical examples with solutions, as well as a simplified model for approaching problems.

Digest

Ensure the accuracy of your results when applying the Finite Element Method (FEM) to electromagnetic and antenna problems with this self-contained reference. It provides you with a solid understanding of the method, describes its key elements and numerical techniques, and identifies various approaches to using the FEM in solving real-world microwave field problems.

Proceedings of the National Electronics Conference

Journal of Communications Technology & Electronics
Finite Element Method for Eigenvalue Problems in Electromagnetics

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Science Abstracts

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