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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Abstract — Guiding characteristics along with field distributions for different modes in a rectangular waveguide are numerically estimated using HFSS software when it is placed in free space. A comparative analysis is made for propagation constant, guided wavelength and characteristic impedance at C, X and Ku band ...

Numerical Characterization of Rectangular Waveguide in ...

Modeling and characterization of a rectangular waveguide grating structure using transmission line ... numerical simulations of the dispersion relation are carried out ... Fig. 1. Sketch of a rectangular waveguide grating (RWG) structure. Fig. 2. Representation of the RWG periodic structure by cascaded equivalent

ARTICLE 1 Modeling and characterization of a rectangular ...

This paper describes the simulation, fabrication and characterization of silicon-based rectangular hollow waveguides. Numerical evaluation of such structures has been done using both modal propagation and ray tracing, low total losses and multimodal behavior, even for small core sizes, are predicted.

Silicon-based rectangular hollow integrated waveguides ...

vol. 22 no. 1 journal of electronics j'an. 1985 numerical analysis of dispersion characteristics of rectangular waveguides filled with arbitrary block-shaped dielectrics

Numerical analysis of dispersion characteristics of ...

In this paper, the flanged open-ended rectangular waveguide probe technique is studied using Finite Difference Time-Domain simulation (FDTD). Both generally lossy and high loss electromagnetic materials are considered to investigate the influence of probe flange size, operating frequency and sample thickness on complex permittivity (ϵ_r) and permeability (μ_r) and thickness measurement.

Analysis of Flanged Rectangular Waveguide Probe for ...

Characterization of a Class of Waveguide Discontinuities Using a Modified TE_n Mode Approach
JENS BORNEMANN, SENIOR MEMBER, IEEE, AND RUEDIGER VAHLDIECK, SENIOR MEMBER, IEEE
Abstract —This paper presents a modified TE_n wave approach which is used in conjunction with the mode matching method for the field.

Characterization of a Class of Waveguide Discontinuities ...

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Characterization of Magnetic Sheet Materials Using Waveguide ... consists of rectangular waveguide with finite flange placed against a combination of the sample under test and a known ... numerical analysis can be applied to model problem geometry since it is

Characterization of Magnetic Sheet Materials Using ...

1.. IntroductionAs it was mentioned in Part I , the accurate analysis and characterization of “waveguide discontinuities” is an important issue in microwave engineering (see e.g., ,

).Specifically, H-plane and E-plane rectangular waveguide discontinuities, which are the target of the presented work, play an important role in the communication systems working in the upper microwave and ...

A two-dimensional self-adaptive hp finite element method ...

PDF | The paper presents the characterization of the field of view (FOV) in a holographic waveguide display (HWD) with a broadband spectrum image source. The influences of parameters such as ...

Characterization and Optimization of Field of View in a ...

From the FDTD analysis, according to the calculated probe reflection coefficient for different measurement conditions, it can be concluded that the choice of flange dimension of rectangular waveguide probe for generally lossy and high loss material characterization depends on sample thickness, ϵ_r and μ_r parameters of material under test and ...

Analysis of Flanged Rectangular Waveguide Probe for ...

We numerically characterize a novel type of a photonic crystal waveguide, which consists of several rows of periodically arranged dielectric cylinders. ... Numerical characterization of nanopillar photonic crystal waveguides and directional couplers. Authors; Authors and affiliations ... We present a systematic analysis of the dispersion and ...

Numerical characterization of nanopillar photonic crystal ...

A two-dimensional self-adaptive hp finite element method for the characterization of waveguide discontinuities. Part II: Goal-oriented hp-adaptivity ... Numerical results illustrate the main differences between the energy-norm based and the goal-oriented based hp-adaptivity, when applied to rectangular waveguide structures. ... This is the ...

A two-dimensional self-adaptive hp finite element method ...

Series of waveguide transitions where the cross section of a waveguide structure changes in the direction of optical propagation are widely used in the design of integrated optical circuits, for example, junctions, tapers, and branches. Many numerical approaches such as the coupled-mode theory (CMT) [1, 2], the beam-propagation method (BPM)

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Analysis of Waveguide Junction Discontinuities Using Finite Element Method Manohar D. Deshpande ViGYAN, Inc., Hampton, Virginia ... Rectangular waveguide junction with misalignment in the x-direction ... transmission coefficients of transverse discontinuities in a rectangular waveguide. Numerical

Analysis of Waveguide Junction Discontinuities Using ...

Channel Waveguides for Radio Frequencies Coaxial Cable Isolated Wire Twisted Pair Transmission Line Shielded-Pair Transmission Line Rectangular Waveguide Lecture 12 Slide 12 Channel Waveguides for Printed Circuits Transmission lines are metallic structures that guide electromagnetic waves from DC to very high frequencies.

Lecture #12 Finite-Difference Analysis of Waveguides

Key words: Finite Element Method, hp-adaptivity, Energy-norm, Rectangular Waveguides, Waveguide Discontinuities, S-Parameters 1 Introduction As it was mentioned in the first paper on this series [1], the accurate analysis and characterization of "waveguide discontinuities" is an important issue in microwave engineering (see e.g., [2], [3]).

A Two-Dimensional Self-Adaptive hp Finite Element Method ...

Since the subject of the University of Ioannina, Ioannina, Greece present paper is the numerical determination of modal dis- V. I. C. Protopappas · D. Fotiadis person and the characterization of acoustic emission (AE) Unit of Medical Technology and Intelligent Information Systems, signals propagating in waveguides, works dealing with the ...

Numerical determination of modal dispersion and AE signal ...

Figure 5. Rectangular to circular waveguide converter 3. Numerical Design and Analysis A. Design Specifications To have an optimum design, the specifications of rectangular to circular waveguide converter are as follows: (i). The used rectangular waveguide transducer is WR284 type with a and b of 72.1mm and 34mm respectively.

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