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Solving the cut-off wave numbers in partially filled rectangular waveguides with ferrite by the Cauchy integral method Abstract: The modal analysis of the off-centered rectangular waveguide loaded with a vertical slab of ferrite material, biased in the y-direction by a DC magnetic field, leads to the resolution of a transcendent equation whose ...

Solving the cut-off wave numbers in partially filled ...
Abstract. A single-mode waveguide, partially filled with dielectric materials, is an important case of a metamaterial. Here, we report an effective medium characterization of partially-filled waveguides by using the image dipole method and obtain an explicit expression for the effective permittivity.

Effective medium characterization of partially-filled ...
Waveguides and horn antennas come under the classification of aperture antennas. and are most commonly used at microwave frequencies. Such antennas are used in space applications. ... Display shape as filled patch: ... You clicked a link that corresponds to this MATLAB command: Run the command by entering it in the MATLAB Command Window.

Waveguides - MATLAB & Simulink
PERMITTIVITY AND PERMEABILITY DETERMINATION FOR HIGH INDEX SPECIMENS USING PARTIALLY FILLED SHORTED RECTANGULAR WAVEGUIDES Mark M. Scott,1 Daniel L. Faircloth2, Jeffrey A. Bean,1 and Kenneth W. Allen1 1 Advanced Concepts Laboratory, Georgia Tech Research Institute, Atlanta, GA 30318 USA; Corresponding author: kenneth.allen@gtri.gatech.edu

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Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena ... 8.5 Partially Filled Waveguide 393. 8.6 Transverse Resonance Method 405. ... after Dielectric Waveguide, which includes some figures to illustrate their basic characteristics and properties. Also a MATLAB® program has been developed, which accompanies the ...

Advanced Engineering Electromagnetics, 2nd Edition ...

Now specify the waveguide ports. Port 1 is 11 cells from the bottom end of the waveguide and port 2 is 13 cells from the top end. Ports are in the form of a box with the excitation plane located at the start position and the voltage and current probes located at the stop position. The stop position specifies the reference plane for the port.

Tutorial: Rectangular Waveguide - openEMS

waveguide had been analysed for an idealised case (w→∞) in [4] and [5]. Wakefields were calculated in [4]. In this paper we calculate 3-D field distributions for a rectangular partially filled dielectric waveguide, and we give an exact solution for all the field components in terms of LSM (longitudinal section

Field Analysis of Dielectric-Loaded Rectangular Waveguide ...

Design of a Cylindrical Cavity Resonator for Measurements of Electrical Properties of Dielectric Materials Xiang Li, Yan Jiang September-2010 ... measurement. [9] introduced the materials are measured inside a partially filled waveguide. (a) 9 (b)

Design of a Cylindrical Cavity Resonator for Measurements ...

to the measured ones -for both filled and partially filled waveguides. Another goal is to check the evaluation of the scattering parameters from a partially filled waveguide with the Nicolson Ross Weir algorithm and also to implement some algorithms and a calibration procedure with the Matlab software.

Microwave materials characterization using waveguides and ...

Electrostatics : A parallel plate capacitor with a partial dielectric Problem statement Consider a parallel plate capacitor which is only partially filled with a slab of dielectric, the remaining thickness being made up of air.

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