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Abstract: The modal spectrum for a rectangular waveguide with a dielectric slab at the bottom of the guide is obtained following the Characteristic Green's Function method developed by Marcuvitz. Then a four-terminal

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network is found as equivalent to the junction of the partially filled waveguide and an empty rectangular waveguide.

Field Analysis of  
Dielectric-Loaded  
Rectangular  
Waveguide ...  
to the measured  
ones -for both filled



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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

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Slot Array Antenna  
using a Rectangular  
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A single-mode  
waveguide, partially  
filled with dielectric  
materials, is an  
important case of a  
metamaterial. Here,  
we report an  
effective medium

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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 ...

This article

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describes a new nonuniform slot antenna array in the broad wall of rectangular waveguides partially filled with a dielectric slab. The slot elements are nonuniformly spaced to achieve a higher side lobe level while the amplitude and

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phase of their  
excitations are  
identical.

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parallel plate  
capacitor with a  
partial ...

waveguide had been  
analysed for an  
idealised case ( $w \ll a$ )  
in [4] and [5].

Wakefields were  
calculated in [4]. In

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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

Discontinuities in a  
Rectangular

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here to go to our  
main page on  
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main page on  
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New for December  
2007! Rectangular  
waveguide is most  
often filled with air,

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sometimes

pressurized in high-  
power application.

Why would you want  
to fill it with a  
dielectric? ... The  
waveguide can be  
partially loaded ...

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Electromagnetics,  
2nd Edition ...  
Slot radiators in a



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rectangular  
waveguide partly  
filled with dielectric

... ones cut in a  
rectangular  
waveguide, partially  
filled with dielectric  
are investigated. ...  
antenna of partial H-  
plane ...

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WAVEGUIDES Mark  
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Bean,<sup>1</sup> and Kenneth  
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DEMONSTRATION  
OF DOUBLE-  
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some flexible cables use PTFE that is partially filled with air; these cables provide group delay on the order of 1.3 to 1.4 nanoseconds per foot. See our separate page on group delay in waveguide structures. Group delay in microwave filters is another

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great topic, you can  
find more info here  
(thanks, Cheryl!)  
Filters end up ...

Microwaves101 |  
Group Delay  
Forty-nine  
MATLAB® programs  
to compute, plot and  
animate some of the  
wave phenomena ...  
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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 ...

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Matlab

Write a MatLab  
script for a  
symmetric slab  
waveguide that  
solves the  
dispersion relation  
and plots the modal  
field in the  
transverse plane

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(i.e. a section along the ... Anyway I can use this for solving modes in a partially filled rectangular waveguide? Ole. Ole (view profile) 0 files ... It seems the equations used here for  $a_w$ ,  $a_e$ ,  $a_n$  and  $a_s$  ...

partially filled  
rectangular



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waveguide - Bing  
The waveguide object is an open-ended rectangular waveguide. The default rectangular waveguide is the WR-90 and functions in the X-band. The X-band has a cutoff frequency of 6.5 GHz and ranges from 8.2 GHz to 12.5

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GHz.  
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Create rectangular  
waveguide -

MATLAB

Slot Array Antenna  
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Metamaterials, 2006.

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parallel plate  
capacitor with a  
partial dielectric  
Problem statement  
Consider a parallel  
plate capacitor

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which is only partially filled with a slab of dielectric, the remaining thickness being made up of air.

Microwaves101 |  
Dielectric-Loaded  
Waveguide

An efficient root-finder method for the cutoff wave-number resolution

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in a rectangular partially filled waveguide based upon the Cauchy integral method is presented. The great advantage that this method, valid for lossy dielectric and magnetic

A partially ferrite-filled rectangular waveguide with

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A partially-dielectric-filled rectangular waveguide has been proposed to suppress the side lobes in the small-size waveguide fed parallel plate slot array. The transcendental equation has been derived and thereby the guided

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wavelength as a function of the geometry of the partially-filled rectangular waveguide.

(PDF) Solving the cutoff wave numbers in partially filled ...

Since the waveguide is fully filled with the ferrite, then the

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radiation efficiency of the mentioned antenna is relatively low due to the considerable loss of the ferrite at the microwave frequencies. In this paper, a novel partially ferrite waveguide LWA is proposed to provide continuous beam scanning for single-



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A nonuniform array  
of slots in the  
broad?walls of ...

Electromagnetic  
waveguides are  
analyzed thorough  
the solution to the  
electromagnetic  
wave equation, a  
second order partial  
differential

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reduction of  
Maxwell's equations,  
Type with a set of  
boundary conditions  
derived from the  
geometry of the  
waveguide and the  
properties of its  
constituent  
materials. The wave  
equation has  
multiple solutions,  
or modes.

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Microwave materials  
characterization  
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IN A CIRCULAR  
WAVEGUIDE Z. Y.

Duan<sup>1,\*</sup>, Y. S.

Wang<sup>1</sup>, X. T. Mao<sup>1</sup>,  
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