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Waveguide

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Vibrations and Waves
(Walter Lewin)

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Code The waveguide
object is an open-ended
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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 GHz.

Partially Filled Rectangular Waveguide

The natural H- and E-waves of a partially filled rectangular waveguide are expressed in terms of

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Mathieu functions.
Numerical results of
wavenumber studies
are presented and
interpreted graphically.
An approximate method
is proposed for
determination of the
wave numbers of a
partially filled rectangular
waveguide.

Wave numbers of
partially filled rectangular

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A partially ferrite-filled rectangular waveguide with CRLH response and its application to a magnetically scannable antenna

1. Introduction. Ferrite is an anisotropic magnetic material widely used in design and fabrication of the antenna and...
2. Modal analysis of the partially ferrite-filled ...

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A partially ferrite-filled
rectangular waveguide
with CRLH ...

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

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material, biased in the y -direction by a DC magnetic field, leads to the resolution of a transcendental equation whose infinite solutions are the TE/sub m_0 / cutoff wave numbers in the guide.

Solving the cut-off wave numbers in partially filled

...

Waveguides Design

Page 15/33

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Stefan Simion*

Abstract—In this paper, a new cross section configuration of partially dielectric filled rectangular waveguide (PDF-RW) is proposed and analyzed. It may be used when substrate integrated waveguides (SIWs) are designed such as to maximize the frequency bandwidth for insertion losses as low as

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Partially Dielectric-Filled
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Code The waveguide
object is an open-ended
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A partially – dielectric-

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

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Rectangular waveguide is most often filled with air, sometimes pressurized in high-power application.

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Why would you want to fill it with a dielectric?

One reason is to shrink the dimensions.

Sometimes you might want to load the waveguide with a ferrite material, perhaps to make a circulator.

[Microwaves101 | Dielectric-Loaded Waveguide](#)

A partially – dielectric-

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

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Applications of the
Method to the Solution
of the Cutoff Wave
Numbers in a Partially
Filled Rectangular
Waveguide A detailed
study of eq. (1) shows
that $f(\gamma, l, h)$ is
meromorphic in plane l .
Those poles that appear
in both $f(\gamma, l, h)$ and $f(\gamma, l,$

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h) are well known, so the regions need to be selected by avoiding these poles.

Solving the cutoff wave numbers in partially filled

...

Propagation Constants in
Rectangular Waveguide
Partially Filled with
Dielectric
(Correspondence)
Abstract: ...

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Partially Filled Rectangular Propagation Constants in Rectangular Waveguide Partially ...

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

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obtain an explicit expression for the effective permittivity. We also confirm experimentally that an electromagnetic wave propagating through a partially-filled waveguides has the same reflection and transmission characteristics as a wave propagating through a ...

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Effective medium
characterization of
partially-filled ...

NEGATIVE
METAMATERIALS
PARTIALLY FILLED IN
A CIRCULAR
WAVEGUIDE Z. Y.

Duan^{1,*}, Y. S. Wang¹, X.
T. Mao¹, W. X. Wang¹,
and M. Chen² ¹Institute
of High Energy
Electronics, School of
Physical Elec-tronics,

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University of Electronic
Science and Technology
of China, Chengdu
610054, China

2Department of Physics,
Massachusetts Institute of
Technology,

EXPERIMENTAL
DEMONSTRATION
OF DOUBLE-
NEGATIVE ...

Question 8 2 pts

Consider the partially —

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filled rectangular
waveguide shown below.
Assume the waveguide
walls are perfect electric
conductors. d W E_0 E ,
 E_0 b Select the correct
transmission line
equivalent circuit and
parameters among those
listed below for use in the
transverse resonance
analysis for TE_{m0}
modes.

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Question 8 2 Pts

Consider The Partially – Filled R ...

A new approach, the multipole theory (MT) method, is presented for the computation of cutoff wavenumbers of waveguides partially filled with dielectric. The MT formulation of the eigenvalue problem of an inhomogeneous waveguide is derived.

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Multipole Theory

Analysis of Cutoff

Wavenumbers of ...

PFRWG - Partially-Filled
Rectangular Waveguide.

Looking for

abbreviations of

PFRWG? It is Partially-

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Waveguide. Partially-

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Waveguide listed as

PFRWG. Partially-Filled

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How is Partially-Filled
Rectangular Waveguide
abbreviated?

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