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Based on semi-vectorial finite difference method, this code is developed for solving the eigen modes in various types of waveguide. The basic core function is called SVMODES, fiber

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file is for generating the index profile and the coordinates system, and the solvethemode_fiber is the main code.

Optical Waveguide Mode Solver - File Exchange - MATLAB Central

Matlab Code For Optical Waveguide Study and analysis of TE modes of a symmetric step index planar waveguide.

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R2018a Theory The
simplest optical
waveguide structure is
the step-index planar
waveguide. The slab
waveguide, shown in
Fig. 1.1, consists of a
high-index dielectric
layer

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Calculate the
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eigenmodes and

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propagation constants
of optical waveguides
using the finite
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Features: 1. Includes
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(a) Using the MATLAB
code provided
(TEdispersion.m), solve
the TE dispersion
relations graphically for
a symmetric dielectric
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the information below.
Note that you will need
to adapt the code
correspondingly. How
many modes will
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(TEdispersion.m), solve
the TE dispersion
relations graphically for
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many modes will
propagate in the
waveguide?

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difference method, this
code is developed for
solving the eigen
modes in various types
of waveguide. The
baisc core function.

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Mode 4 of the rib waveguide. About BeamLab. BeamLab is an award-winning set of simulation tools for beam propagation through optical devices and waveguides in your familiar MATLAB® environment. It offers a high flexibility in waveguide design and post-processing of any output data.

Optical eigenmode

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BeamLab

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Systems-level
modeling of on-chip
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Q. -- Consider a symmetric slab waveguide for operation at 1550nm which is infinite in extent in the y-direction but restricted to a some thickness 'd' in the x-direction. Use typical values of refractive indices encountered in optical waveguides. Consider the TE mode. Setup the transcendental mode equation and solve it. Adjust the design of...

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Matlab code for Symmetric slab waveguide | khem608

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 GHz.

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**Create rectangular
waveguide - MATLAB**

Implementation of
Finite-Difference
Waveguide Analysis in
MATLAB. See every line
of MATLAB typed and
explained by an expert
for rigorously analyzing
a waveguide using the
finite-difference
method. The program
will analyze a rib
waveguide, but is
capable of analyzing
any waveguide
including metallic

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waveguides and
dielectric waveguides.

Implementation of Finite-Difference Waveguide Analysis

Optical Eigenmode
Solver for Dielectric
Waveguides. Above:
Example of optical
mode profile calculated
with modesolver.
Features. Complete,
documented source
code is provided;
Includes scalar,
semivectorial and full-

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vector versions; Full
vector version can
determine all three
field components of
both H and E

WGMODES - Photonics Research Laboratory

optical-fiber.

Fundamental of STEP
INDEX fibers(a) ...

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Programming with
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The waveguideCircular object creates a circular waveguide. A circular waveguide is a hollow tube of uniform cross section, that confines the electromagnetic wave. This antenna is used in ... Run the command by entering it in the MATLAB Command

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