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## **Optical Planar Wave Matlab Code**

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## **Optical Planar Waveguide Matlab Code**

Calculate the  
electromagnetic  
eigenmodes and  
propagation constants  
of optical waveguides  
using the finite  
difference method.

Features: 1. Includes  
vector, semivector, and  
scalar versions. 2. Can  
solve for all

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components of E and

H. 3. Allows for

perfectly-matched

boundary layers. 4.

Can model transverse

anisotropic materials.

5. Several ...

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Affiliation Abstract The

paper presents a  
design and simulation  
of the optical path  
which include linear  
and nonlinear effects  
using the MATLAB  
simulation tools.

**USING MATLAB  
TOOLS FOR  
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## **OPTICAL ...**

OSCAR is a reliable and versatile MATLAB package to simulate realistic Fabry-Perot optical cavities. The main driver for its development was the design and commissioning of the laser gravitational wave detector Advanced Virgo and it has since been extensively used within this collaboration.

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**OSCAR: A MATLAB  
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An optical waveguide is a physical structure that guides electromagnetic waves in the optical spectrum. Common types of optical waveguides include optical fiber and transparent dielectric waveguides made of plastic and glass.. Optical waveguides are used as components in

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integrated optical  
circuits or as the

transmission medium  
in local and long haul  
optical communication  
systems.

## **Waveguide (optics) - Wikipedia**

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For starters, for the  
initial electric field, I  
will have the plane  
wave  $x$  object. The  
plane wave will be  
formulated with the

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following equation:  $\exp(i k_x x) \exp(i k_y y)$ . How do I obtain  $x$ ,  $y$ ,  $k_x$ ,  $k_y$ , and the angle of the beam?

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