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Based on semei-vectorial finite difference method, this code is developed for solving the eigen modes in various types of waveguide. The baisc core function is called SVMODES, fiber file is for generating the index profile and the coordinates system, and the solvethemode_fiber is the main code.

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Optical Waveguide Simulation Matlab

Matlab Code For Optical Waveguide I. (a) Using the MATLAB code provided (TEdispersion.m), solve the TE dispersion relations graphically for a symmetric dielectric slab waveguide given the information below. Note that you will need to adapt the code correspondingly. How many modes will propagate in the waveguide?

Waveguide Dispersion Matlab Code

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

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