

Homework 2 (**Due on Nov. 19**):

1. Consider a strip waveguide shown in below: $n_f=3.5$, $n_c=1$, and $n_s=1.5$, $w=3\mu\text{m}$, $h=1\mu\text{m}$. The working wavelength in vacuum is $1.55\mu\text{m}$. Calculate and plot the propagation constants, effective indices, and all the guiding mode profiles of y-polarization and x-polarization. You can use the software you learned in class or any software you like.

