Nanophotonic Modeling
Lecture 2.14: CAMFR Usage I

Prof. Peter Bermel
CAMFR: 2D Photonic Crystals

CAMFR: 2D PhC Waveguide
Code: 1D Waveguide

```python
#!/usr/bin/env python
from camfr import *
set_lambda(1)
set_N(20)
set_polarisation(TE)
GaAs = Material(3.5)
air = Material(1.0)
slab = Slab(air(2) + GaAs(0.5) + air(2))
slab.calc()
....
slab.plot()
```
Results: 1D Waveguide

E-field spatial distribution

Effective index profile