

Physics 273, Fall 2007, Challenge # 7, Microwave refraction in paraffin

NAME: \_\_\_\_\_

In class we saw that microwaves undergo refraction in passing through paraffin. Use the results to find the impedance of paraffin for microwaves.

Compare this value with the impedance expected given the known dielectric constant of paraffin, which is  $\sim 2$ .

Result of this challenge should be two numbers and thought.