

Physics 504 Ordinary Homework #2

Due: Feb. 17, 2011

1. Do Jackson 7.3, but consider only the case for the electric field lying in the plane of incidence.

2. Do Jackson 7.16. Note that having chosen the coordinate axes to be principal axes of the dielectric tensor, you are not free to choose \vec{k} to be along one of the axes.

So far I have had trouble with part (c), so unless you see that it is easier than I do, you can skip it.

3. Do Jackson 8.5.