

LECTURE 5 - EXERCISE

Question: how much light is absorbed in this slab of material? What do we need to know for answering?

Solution:

- Temperature
- What material it is
- The bandgap (E_g) and more specifically the absorption coefficient α
- The illumination spectrum as a function of the frequency of light $\Phi(\hbar\omega)$
- The thickness of the slab
- The angle of irradiation
- The reflected light, both the primary reflection and the light that is reflected internally at the rear side of the slab

