2009 Spring

03. 18. 2009

Microstructural Characterization of Materials

고유번호 <u>이름</u>

1. 다음 빈칸을 적절한 단어로 채우시오.

- Light is made up of (), but in macroscopic situations, it is often fine totreat it as a ().

- Photons carry both energy & momentum. E=() & P= E/c =()

- Matter also exhibit () properties. For an object of mass m, and velocity, v, the object has a wavelength, $\lambda = ($).

- One can probe 'see' the fine details of matter by using () such as (). → Can reveal the tiniest things!
- The electron microscope is a device which uses the () of electrons to make images which are otherwise too () for visible light!

2. A light wave traveling through a air with propagation speed 3 x 10^8 m/s passes into water with propagation speed 2 x 10^8 m/s with an incident angle of 60° . What is the angle of transmittance?

3. If a lens has a 4 cm focal length and a specimen is 5 cm from it, where will the image appear to be and what will be the magnification?

수업 제안사항 혹은 상담희망 여부: