

Modern Physics, 2/E 2nd

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CHAPTER 3

Waves and Particles I: Electromagnetic Radiation Behaving as Particles

- 3.1 You would put them in contact somehow, so that they could exchange energy. They will do so until their temperatures are equal. The cavity walls are “in contact” (able to exchange energy) with the electromagnetic radiation within the cavity. When they cease to exchange energy, they are necessarily at the same temperature.
- 3.2 The amount of light clearly is not the deciding factor. The feeble light has less intensity, but what intensity it has is composed of little particles each of which has enough energy to knock an electron out of the metal. The bright light has many particles, but each has insufficient energy to eject an electron.
- 3.3 Quite a bit. No matter how few ultraviolet photons there are, each has quite a bit more energy than a 500 nm photon, so it will produce an electron able to surmount the electrostatic barrier by a considerable amount. The stopping potential would have to be made a considerably larger.
- 3.4 No difference. The cutoff wavelength corresponds to all the kinetic energy of the incoming particle going to one photon. If the same accelerating potential is used, the protons would have the same kinetic energy as the electrons.
- 3.5 We have freedom to orient the xy plane any way we like, so long as the x -axis is along the initial direction of motion of the photon. In particular we may orient it so that the recoiling electron’s momentum has only x and y components, i.e., that it is in the xy plane. How about the scattered photon? Were it to have a non-zero z -component after the collision, momentum could not be conserved, since the initial momentum is strictly in the x -direction. (Both the y and z components after the collision must cancel.) Thus, it too can have only x and y components—it must be in the same xy plane.
- (b) The outcome of a moving billiard ball striking a stationary one varies according to the “impact parameter”, the distance from the line describing the motion of the center of the moving object to the center of the stationary one: Were that distance zero, the collision would be head-on; were it greater than the sum of the radii, there would be no collision at all.



- (c) No, for even if we could monitor or control the collision with great precision, the photon cannot be treated as a sphere. It is necessarily fuzzy, so the impact parameter is necessarily vague. (Actually, the same applies to the electron.)

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