

Multiple Choice Questions I

8.1. One requires 11eV of energy to dissociate a carbon monoxide molecule into carbon and oxygen atoms. The minimum frequency of the appropriate electromagnetic radiation to achieve the dissociation lies in

- a) visible region
- b) infrared region
- c) ultraviolet region
- d) microwave region

Answer:

- c) ultraviolet region

8.2. A linearly polarized electromagnetic wave given as $E = E_0 \hat{i} \cos(kz - \omega t)$ is incident normally on a perfectly reflecting infinite wall at $z = a$. Assuming that the material of the wall is optically inactive, the reflected wave will be given as

a)

$$E_r = -E_0 \hat{i} \cos(kz - \omega t)$$

b)

$$E_r = E_0 \hat{i} \cos(kz + \omega t)$$

c)

$$E_r = -E_0 \hat{i} \cos(kz + \omega t)$$

d)

$$E_r = E_0 \hat{i} \sin(kz - \omega t)$$

Answer:

b)

$$E_r = E_0 \hat{i} \cos(kz + \omega t)$$

8.3. Light with an energy flux of 20 W/cm² falls on a non-reflecting surface at normal incidence. If the surface has an area of 30cm², the total momentum delivered during 30 minutes is

- a) 36×10^{-6} kg m/s
- b) 36×10^{-4} kg m/s
- c) 108×10^4 kg m/s
- d) 1.08×10^7 kg m/s

Answer:

- b) 36×10^{-4} kg m/s

8.4. The electric field intensity produced by the radiations coming from 100 W bulb at a 3 m distance is E. The electric field intensity produced by the radiations coming from 50 W bulb at the same distance is

- a) E/2
- b) 2E
- c) E/ $\sqrt{2}$

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