

Problem Solutions for Chapter 2

2-1.
$$\mathbf{E} = 100 \cos (2\pi 10^8 t + 30^\circ) \mathbf{e}_x + 20 \cos (2\pi 10^8 t - 50^\circ) \mathbf{e}_y + 40 \cos (2\pi 10^8 t + 210^\circ) \mathbf{e}_z$$

2-2. The general form is:

$$y = (\text{amplitude}) \cos(\omega t - kz) = A \cos [2\pi(\nu t - z/\lambda)]. \text{ Therefore}$$

(a) amplitude = $8 \mu\text{m}$

(b) wavelength: $1/\lambda = 0.8 \mu\text{m}^{-1}$ so that $\lambda = 1.25 \mu\text{m}$

(c) $\omega = 2\pi\nu = 2\pi(2) = 4\pi$

(d) At $t = 0$ and $z = 4 \mu\text{m}$ we have

$$\begin{aligned} y &= 8 \cos [2\pi(-0.8 \mu\text{m}^{-1})(4 \mu\text{m})] \\ &= 8 \cos [2\pi(-3.2)] = 2.472 \end{aligned}$$

2-3. For E in electron volts and λ in μm we have $E = \frac{1.240}{\lambda}$

(a) At $0.82 \mu\text{m}$, $E = 1.240/0.82 = 1.512 \text{ eV}$

At $1.32 \mu\text{m}$, $E = 1.240/1.32 = 0.939 \text{ eV}$

At $1.55 \mu\text{m}$, $E = 1.240/1.55 = 0.800 \text{ eV}$

(b) At $0.82 \mu\text{m}$, $k = 2\pi/\lambda = 7.662 \mu\text{m}^{-1}$

At $1.32 \mu\text{m}$, $k = 2\pi/\lambda = 4.760 \mu\text{m}^{-1}$

At $1.55 \mu\text{m}$, $k = 2\pi/\lambda = 4.054 \mu\text{m}^{-1}$

2-4. $x_1 = a_1 \cos (\omega t - \delta_1)$ and $x_2 = a_2 \cos (\omega t - \delta_2)$

Adding x_1 and x_2 yields

$$\begin{aligned} x_1 + x_2 &= a_1 [\cos \omega t \cos \delta_1 + \sin \omega t \sin \delta_1] \\ &\quad + a_2 [\cos \omega t \cos \delta_2 + \sin \omega t \sin \delta_2] \\ &= [a_1 \cos \delta_1 + a_2 \cos \delta_2] \cos \omega t + [a_1 \sin \delta_1 + a_2 \sin \delta_2] \sin \omega t \end{aligned}$$

Since the a 's and the δ 's are constants, we can set

$$a_1 \cos \delta_1 + a_2 \cos \delta_2 = A \cos \phi \quad (1)$$

Solution Manual Of Optical Communication

William Peddie



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