Problem Solutions for Chapter 2

E =
$$100\cos \left(2\pi 10^{8}t + 30^{9}\right)e_{s} + 20\cos \left(2\pi 10^{8}t - 50^{9}\right)e_{s}$$

+ $40\cos \left(2\pi 10^{8}t + 210^{9}\right)e_{s}$

2-2. The general form is:

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

- (a) amplitude = 8 μm
- (b) wavelength: $1/\lambda = 0.8 \,\mu\text{m}^{-1}$ so that $\lambda = 1.25 \,\mu\text{m}$
- (c) $\omega = 2\pi v = 2\pi(2) = 4\pi$
- (d) At t = 0 and $z = 4 \mu m$ we have

$$y = 8 \cos [2\pi(-0.8 \mu m^{-1})(4 \mu m)]$$

= $8 \cos [2\pi(-3.2)] = 2.472$

- 2-3. For E in electron volts and λ in μ m we have $E = \frac{1.240}{\lambda}$
 - (a) At 0.82 μm, E = 1.240/0.82 = 1.512 eV

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

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

(b) At 0.82 μ m, $k = 2\pi/\lambda = 7.662 \mu$ m⁻¹

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

At 1.55
$$\mu$$
m, $k = 2\pi/\lambda = 4.054 \mu$ m⁻¹

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

$$x_1 + x_2 = a_1 [\cos \omega t \cos \delta_1 + \sin \omega t \sin \delta_1]$$

+
$$a_2$$
 [cos out cos δ_2 + sin out sin δ_2]

=
$$[a_1 \cos \delta_1 + a_2 \cos \delta_2] \cos \omega t + [a_1 \sin \delta_1 + a_2 \sin \delta_2] \sin \omega t$$

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

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

Solution Manual Of Optical Communication

Guillaume Favre

Solution Manual Of Optical Communication:

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