

**Problem Solutions for Chapter 1**

- 1.1 (a) Using Eq. 1.3 for the relationship between photon energy and wavelength, we find that  $E(850) = 1.46$  eV,  $E(1310) = 0.95$  eV,  $E(1490) = 0.83$  eV, and  $E(1550) = 0.80$  eV.

$$(b) \text{ The number of photons } N = \frac{(\text{Pulse width})(\text{Pulse power})}{(\text{Energy / photon in eV})(1.6 \times 10^{-19} \text{ J/eV})}$$

Therefore  $N(850) = 428$ ,  $N(1310) = 657$ ,  $N(1490) = 753$ , and  $N(1550) = 781$ .

- 1.2 In terms of wavelength, at a central wavelength of 1546 nm a 100-GHz channel spacing is

$$\Delta\lambda = \frac{\lambda^2}{c} \Delta f = \frac{(1546 \text{ nm})^2}{3 \times 10^8 \text{ m/s}} 100 \times 10^9 \text{ s}^{-1} = 0.80 \text{ nm}$$

The number of wavelength channels fitting into the 1536-to-1556 spectral band then is  $N = (1556 - 1536 \text{ nm})/0.80 \text{ nm} = 25$ .

- 1.3 Three sine waves have the following periods  $T$ : 25  $\mu\text{s}$ , 250 ns, 125 ps. Their frequencies are  $f = 1/T = 40$  kHz, 4.0 MHz, and 8 GHz, respectively.
- 1.4 A sine wave is offset 1/6 of a cycle with respect to time zero. Its phase in degrees is 60 and in radians is  $\pi/3$ .
- 1.5 Two signals have the same frequency, but when the amplitude of the first signal is at its maximum, the amplitude of the second signal is at half its maximum. The phase shift between the two signals is 90 degrees.
- 1.6 Three signals have bit rates of  $R = 64$  kb/s, 5 Mb/s, and 10 Gbps. The duration of a bit is  $T_b = 1/R = 15.6 \mu\text{s}$ , 200 ns, and 0.1 ns, respectively.
- 1.7 (a) Convert the following absolute power gains  $P_2/P_1$  to decibel power gains:  $10^{-3}$ , 0.3, 1, 4, 10, 100, 500,  $2^9$ . Answer using Eq. (1.4): -30, -5.2, 0, 6, 10, 20, 27, 3n dB, respectively.
- (b) Convert the following decibel power gains to absolute power gains: -30 dB, 0 dB, 13 dB, 30 dB, 10n dB. Answer:  $10^{-3}$ , 1, 20, 1000,  $10^9$ , respectively.

# **Solution Manual Keiser**

**Walton Martin, William Hayden  
Rockwell**



## **Solution Manual Keiser:**

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## **Solution Manual Keiser** Book Review: Unveiling the Magic of Language

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