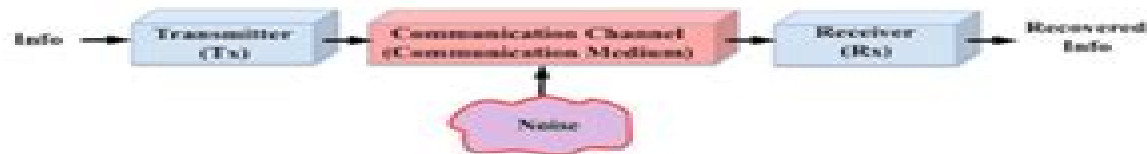


Solutions to End of Chapter Problems

1. What is the purpose of a communications system? Draw and explain the components.

Purpose: to transmit information over a distance, from one place to another.



- Transmitter – converts information into an electronic form suitable for the channel
- Channel – the physical medium through which an electronic signal travels
e.g., wire, fiber-optic cable, free space (i.e., air), water (sonar)
- Receiver – converts the received signal back to a usable form
- Noise – undesired, random corrupting energy

2. What part of the electromagnetic spectrum (frequency range) is visible to humans?

Visible light frequencies range from approximately 430 THz to 790 THz.

3. Find 5 major uses of the UHF band (Use a book or the Internet to find your answer).

UHF: 300 MHz to 3 GHz. Used for: broadcast television, cell phones, GPS, Wi-Fi, Bluetooth, cordless phones, etc.

4. Calculate the frequency of signals with the following wavelengths:

a. 30 m
$$f = \frac{c}{\lambda} = \frac{3 \times 10^8 \frac{\text{m}}{\text{s}}}{30 \text{ m}} = 10 \text{ MHz}$$

b. 2 km
$$f = \frac{c}{\lambda} = \frac{3 \times 10^8 \frac{\text{m}}{\text{s}}}{2000 \text{ m}} = 150 \text{ kHz}$$

c. 8 cm
$$f = \frac{c}{\lambda} = \frac{3 \times 10^8 \frac{\text{m}}{\text{s}}}{0.08 \text{ m}} = 3.75 \text{ GHz}$$

5. AM Radio

- What is the frequency range used by AM radio broadcast stations? **535 kHz to 1700 kHz**
- What is the bandwidth (BW) occupied by each station? **10 kHz**

6. Given the sine wave below, answer the following questions:

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Hongru Du



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