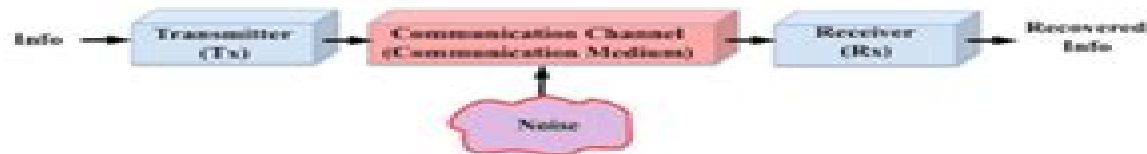


Solutions to End of Chapter Problems

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:

Solutions To End Of Chapter Problems

Jerry Jenkins



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Civil Engineering Problems and Solutions Donald G. Newnan, 2003-09-18 Written by 6 professors each with a Ph D in Civil Engineering A detailed description of the examination and suggestions on how to prepare for it 195 exam essay and multiple choice problems with a total of 510 individual questions A complete 24 problem sample exam A detailed step by step solution for every problem in the book This book may be used as a separate stand alone volume or in conjunction with Civil Engineering License Review 14th Edition 0 79318 546 7 Its chapter topics match those of the License Review book All of the problems have been reproduced for each chapter followed by detailed step by step solutions Similarly the 24 problem sample exam 12 essay and 12 multiple choice problems is given followed by step by step solutions to the exam Engineers looking for a CE PE review with problems and solutions will buy both books Those who want only an elaborate set of exam problems a sample exam and detailed solutions to every problem will purchase this book 100% problems and solutions **Solutions**

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Chemical Society, 2005 The American Chemical Society has launched an activities based student centered approach to the general chemistry course a textbook covering all the traditional general chemistry topics but arranged in a molecular context appropriate for biology environmental and engineering students Written by industry chemists and educators Chemistry combines cooperative learning strategies and active learning techniques with a powerful media supplements package to create an effective introductory text Online description

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Media Update Ira Blei, George Odian, 2008-12-19 Blei and Odian's text gives students the tools they need to develop a working understanding of chemical principles rather than just asking them to memorize facts. Now available in a new media enhanced version complete with its own online course space learning environment ChemPortal Blei Odian is better suited than ever to meet the needs of the students taking this course. The Media Update version of Blei Odian includes references to dynamic interactive tutorials which provide a step by step walkthrough of concepts and problem solving skills as well as answer specific feedback and practice problems. We recognize that all introductory courses are not alike. For that reason we offer this text in three versions so you can choose the option that's right for you. General Organic and Biochemistry cloth 0 7167 4375 2 paper 1 4292 0994 1 the comprehensive 26 chapter text An Introduction to General Chemistry 0 7167 7073 3 10 chapters that cover the core concepts in general chemistry Organic and Biochemistry 0 7167 7072 5 16 chapters that cover organic and biochemistry plus two introductory chapters that review general chemistry

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Civil Engineering Donald G. Newnan, 2004 This volume is a study guide for the civil engineer taking the PE exam. Solved problems throughout each chapter reinforce the concepts discussed in the text

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