

Electrons in Atoms

Section 5.1 Light and Quantized Energy

In your textbook, read about the wave nature of light.

Use each of the terms below just once to complete the passage.

amplitude
light

energy
wave

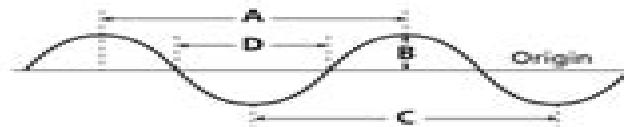
frequency
wavelength

hertz
speed

Electromagnetic radiation is a kind of (1) _____ that behaves like a(n) (2) _____ as it travels through space. (3) _____ is one type of electromagnetic radiation. Other examples include X rays, radio waves, and microwaves.

All waves can be characterized by their wavelength, amplitude, frequency, and (4) _____. The shortest distance between equivalent points on a continuous wave is called a(n) (5) _____. The height of a wave from the origin to a crest or from the origin to a trough is the (6) _____. (7) _____ is the number of waves that pass a given point in one second. The SI unit for frequency is the (8) _____, which is equivalent to one wave per second.

Use the figure to answer the following questions.



9. Which letter(s) represent one wavelength? _____
10. Which letter(s) represent the amplitude? _____
11. If twice the length of A passes a stationary point every second, what is the frequency of the wave? _____

Study Guide Electrons In Atoms Answers

Susan McMurry

Study Guide Electrons In Atoms Answers:

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Parise,2015-07-01 Parise and Loudon's Study Guide and Solutions Manual offers the following learning aids Links that provide hints for study approaches to problem solving and additional explanations of challenging topics Further Explorations that provide additional depth on key topics Reaction summaries that delve into key mechanisms and stereochemistry Solutions to all the textbook problems Rather than providing just the answer many of the solutions provide detailed explanations of how the problem should be approached

[Study Guide and Full Solutions Manual](#) Susan McMurry,John McMurry,2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook

[Study Guide with Selected Solutions](#) Karen Timberlake,2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry Susan McMurry,1992

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Together with a Laboratory Application [Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition](#) John McMurry,Susan McMurry,1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

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