



Chapter 5 - Electrons in Atoms - Outline

5.1 - Light and Quantized Energy

The Atom and Unanswered Questions

- Rutherford proposed that all of an atom's positive charge and virtually all of its mass are concentrated in a nucleus that is surrounded by fast-moving electrons
- Scientists observed that certain elements emitted visible light when heated in a flame
- analysis of the emitted light revealed that an element's chemical behavior is related to the arrangement of the electrons in its atoms

The Wave Nature of Light

Visible light is a type of **electromagnetic radiation**, a form of energy that exhibits wave-like behavior as it travels through space

Characteristics of Waves

Chapter 5 Electrons In Atoms Solution Manual

Susan McMurry

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Modern Atomic And Nuclear Physics (Revised Edition): Problems And Solutions Manual Fujia Yang, Joseph H. Hamilton, 2010-06-01 This problems and solutions manual is intended as a companion to an earlier textbook Modern Atomic and Nuclear Physics Revised Edition World Scientific 2010. This manual presents solutions to many end of chapter problems in the textbook. These solutions are valuable to the instructors and students working in the modern atomic field. Students can master important information and concept in the process of looking at solutions to some problems and become better equipped to solve other problems that the instructors propose.

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Solutions Manual Joseph Topich, 2000-10

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