

The Hydrogen Atom – Student Guide

Background Material

Carefully read the background pages entitled Energy Levels, Light, and Transitions and answer the following questions to check your understanding.

Question 1: Complete the following table which compares how the Bohr Model and the Quantum model represent the Hydrogen atom. In some cases they both describe things in the same way and in some cases they do not.

Concept	Bohr Model	Quantum Model
Nucleus	positively charged proton at the center	positively charged proton at the center
Electrons	Negatively charged cloud	negatively charged cloud
Orbital	Electrons travel in a circular orbits around nucleus	Electrons are in a certain position in orbit
Location of electron in the first orbital	always located at the Bohr radius	Always located on electron cloud
Energy of the Energy Levels	$E = -E_0/n^2$	$E = -E_0/n^2$

Question 2: Complete the following table which relates the parameters of two different photons by circling the appropriate relationship. The first row is completed for you: "A red photon has a larger wavelength, smaller frequency, smaller energy, and the same velocity through space as a blue photon".

Answers To The Hydrogen Atom Student Guide

Xiang Xie



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Chemical Principles Student's Study Guide & Solutions Manual John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text

Organic Chemistry, Student Solution Manual and Study Guide David R. Klein, 2021-03-16 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Solution Manual and Study Guide 4th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

Study Guide and Student Solutions Manual Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics

Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-04 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

Student Solutions Manual for Chang's Chemistry Philip C. Keller, Raymond Chang, Jill L. Keller, 1988

Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston, Denniston Katherine, 2006

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Study Guide, Student Solutions Manual Raymond A. Serway, John R. Gordon, 1998

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Student's Solution Guide to Accompany Zubay, Biochemistry, Second Edition Jonathan Noble, Geoffrey

L. Zubay,1988 Student's Guide to Physical Science Jonathan Turk,Amos Turk,1977 **Student Solutions Manual**
Deborah Wiegand,1999-07 *Student's Guide to Chemistry; a Modern Introduction* David Brooks,1974

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