

Assessment

Chapter Test B

Atomic Physics

MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

1. What is the frequency of a photon with an energy of $1.99 \times 10^{-19} \text{ J}$?
($h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$)
a. $1.00 \times 10^{14} \text{ Hz}$
b. $2.00 \times 10^{14} \text{ Hz}$
c. $3.00 \times 10^{14} \text{ Hz}$
d. $4.00 \times 10^{14} \text{ Hz}$
2. Light with an energy equal to three times the work function of a given metal causes the metal to eject photoelectrons. What is the ratio of the maximum photoelectron kinetic energy to the work function?
a. 1 : 1
b. 2 : 1
c. 3 : 1
d. 4 : 1
3. A monochromatic light beam with a quantum energy value of 3.0 eV is incident upon a photocell. The work function of the photocell is 1.6 eV. What is the maximum kinetic energy of the ejected electrons?
a. 4.6 eV
b. 4.8 eV
c. 1.4 eV
d. 2.4 eV
4. What causes the bright lines in the emission spectrum of an element to occur?
a. Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
b. Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
c. Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
d. Photons are emitted when electrons jump from a lower-energy to a higher-energy state.
5. What causes the dark lines in the absorption spectrum of an element to occur?
a. Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
b. Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
c. Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
d. Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

Holt Physics Chapter 14 Test

S Ashworth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Probability in Physics Yemima Ben-Menahem, Meir Hemmo, 2012-01-10 What is the role and meaning of probability in physical theory in particular in two of the most successful theories of our age quantum physics and statistical mechanics Laws once conceived as universal and deterministic such as Newton's laws of motion or the second law of thermodynamics are replaced in these theories by inherently probabilistic laws This collection of essays by some of the world's foremost experts presents an in depth analysis of the meaning of probability in contemporary physics Among the questions addressed are How are probabilities defined Are they objective or subjective What is their explanatory value What are the differences between quantum and classical probabilities The result is an informative and thought provoking book for the scientifically inquisitive

Too Hot to Touch William M. Alley, Rosemarie Alley, 2013 A fascinating and authoritative account of the controversies and possibilities surrounding nuclear waste disposal providing expert discussion in down to earth language

Holt Algebra 1 2003 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 **Probability in Physics** Andy Lawrence, 2019-09-01 This textbook presents an introduction to the use of probability in physics treating introductory ideas of both statistical physics and of statistical inference as well the importance of probability in information theory quantum mechanics and stochastic processes in a unified manner The book also presents a harmonised view of frequentist and Bayesian approaches to inference emphasising their complementary value The aim is to steer a middle course between the cookbook style and an overly dry mathematical statistics style The treatment is driven by real physics examples throughout but developed with a level of mathematical clarity and rigour appropriate to mid career physics undergraduates Exercises and solutions are included

Physics Holt Rinehart & Winston, 2001-02 *Holt Physics*, 2000-12 **Hidden Worlds in Quantum Physics** Gerard Gouesbet, 2014-01-15 With its emphasis on the history and philosophical foundations of physics this book will interest lay readers as well as students and professionals The distinguished author discusses pioneers in the field including Pauli Einstein Bohr and de Broglie Topics include hidden variable and causal theories pilot wave and Schrödinger's equation 2013 edition

Quantum Systems under Gravitational Time Dilation Magdalena Zych, 2017-02-06 This thesis introduces a new theoretical tool to explore the notion of time and temporal order in quantum mechanics the relativistic quantum clock framework It proposes novel thought experiments showing that proper time can display quantum features e.g. when a clock runs different proper times in superposition The resulting new physical effects can be tested in near future laboratory experiments with atoms molecules and photons as clocks The notion of time holds the key to the regime where quantum theory and general relativity overlap which has not been directly tested yet and remains largely unexplored by the theory The framework also applies to scenarios in which causal relations between events become non classical and which were previously considered impossible to address without refuting quantum theory The relativistic quantum clock framework offers new insights into the foundations of quantum theory and general relativity

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