

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 $1.00 \times 10^{-19} \text{ J}$?
 ($h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$)
- | | |
|-------------------------------------|-------------------------------------|
| a. $1.00 \times 10^{21} \text{ Hz}$ | c. $3.00 \times 10^{12} \text{ Hz}$ |
| b. $2.00 \times 10^{21} \text{ Hz}$ | d. $4.00 \times 10^{12} \text{ Hz}$ |
- _____ 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 | c. 3 : 1 |
| b. 2 : 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 | c. 1.4 eV |
| b. 4.8 eV | d. 2.4 eV |
- _____ 4. What causes the bright lines in the emission spectrum of an element to occur?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
 - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
 - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
 - 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?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
 - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
 - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
 - Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

Holt Physics Chapter 17 Test

Ying-Ying Zheng



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Holt Physics Raymond A. Serway, 2002 **Books in Print Supplement**, 2002 **Holt Physics**, 2000-12

Heisenberg's Quantum Mechanics Mohsen Razavy, 2011-01-20 This book provides a detailed account of quantum theory with a much greater emphasis on the Heisenberg equations of motion and the matrix method. No other texts have come close to discuss quantum theory in terms of depth of coverage. The book features a deeper treatment of the fundamental concepts such as the rules of constructing quantum mechanical operators and the classical quantum correspondence, the exact and approximate methods based on the Heisenberg equations, the determinantal approach to the scattering theory and the LSZ reduction formalism where the latter method is used to obtain the transition matrix. The uncertainty relations for a number of different observables are derived and discussed. A comprehensive chapter on the quantization of systems with nonlocalized interaction is included. Exact solvable models and approximate techniques for solution of realistic many body problems are also considered. The book takes a unified look in the final chapter examining the question of measurement in quantum theory with an introduction to the Bell's inequalities. *Tstgen* Holt Rinehart &

Winston, 1998-04 Teaching Introductory Physics American Association of Physics Teachers. Committee on Physics in Pre-College Education, 1974 **Coarse Grained Simulation and Turbulent Mixing** Fernando F. Grinstein, 2016-06-30 Small scale turbulent flow dynamics is traditionally viewed as universal and as enslaved to that of larger scales. In coarse grained simulation CGS large energy containing structures are resolved, smaller structures are spatially filtered out and unresolved subgrid scale SGS effects are modeled. *Coarse Grained Simulation and Turbulent Mixing* reviews our understanding of CGS. Beginning with an introduction to the fundamental theory, the discussion then moves to the crucial challenges of predictability. Next it addresses verification and validation, the primary means of assessing accuracy and reliability of numerical simulation. The final part reports on the progress made in addressing difficult non-equilibrium applications of timely current interest involving variable density turbulent mixing. The book will be of fundamental interest to graduate students, research scientists, and professionals involved in the design and analysis of complex turbulent flows.

Children's Books in Print, 2007, 2006 *Wise Use of Null Hypothesis Tests* Frank S. Corotto, 2022-10-14 Few students sitting in their introductory statistics class learn that they are being taught the product of a misguided effort to combine two methods into one. Few students learn that some think the method they are being taught should be banned. *Wise Use of Null Hypothesis Tests: A Practitioner's Handbook* follows one of the two methods that were combined, the approach championed by Ronald Fisher. Fisher's method is simple, intuitive, and immune to criticism. *Wise Use of Null Hypothesis Tests* is also a user-friendly handbook meant for practitioners. Rather than overwhelming the reader with endless mathematical operations that are rarely performed by hand, the author of *Wise Use of Null Hypothesis Tests* emphasizes concepts and reasoning. In *Wise Use of Null Hypothesis Tests* the author explains what is accomplished by testing null hypotheses and

what is not The author explains the misconceptions that concern null hypothesis testing He explains why confidence intervals show the results of null hypothesis tests performed backwards Most importantly the author explains the Big Secret Many some say all null hypotheses must be false But authorities tell us we should test false null hypotheses anyway to determine the direction of a difference that we know must be there a topic unrelated to so called one tailed tests In *Wise Use of Null Hypothesis Tests* the author explains how to control how often we get the direction wrong it is not half of alpha and commit a Type III or Type S error Offers a user friendly book meant for the practitioner not a comprehensive statistics book Based on the primary literature not other books Emphasizes the importance of testing null hypotheses to decide upon direction a topic unrelated to so called one tailed tests Covers all the concepts behind null hypothesis testing as it is conventionally understood while emphasizing a superior method Covers everything the author spent 32 years explaining to others the debate over correcting for multiple comparisons the need for factorial analysis the advantages and dangers of repeated measures and more Explains that if we test for direction we are practicing an unappreciated and unnamed method of inference

Achievement Testing in Physics, Selected Reprints American Association of Physics Teachers,1965 *Te HS&T a* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 **Holt General Science** William L. Ramsey,1988 **Resource Letters** American Association of Physics Teachers,1966 **The Project Physics Course: Reader: The nucleus** F. James Rutherford,Harvard Project Physics,1970 **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 *Resource Letters* American Institute of Physics,1961 Holt Leveled Library, Second Course Harcourt School Publishers,2005 Holt Chemistry Ralph Thomas Myers,2004 *Energy Research Abstracts* ,1978 Semiannual with semiannual and annual indexes

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