

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. $1.00 \times 10^{24} \text{ Hz}$ | c. $3.00 \times 10^{12} \text{ Hz}$ |
| b. $2.00 \times 10^{24} \text{ Hz}$ | 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

**Holt Rinehart & Winston, Holt,
Rinehart and Winston Staff**



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Holt Physics Raymond A. Serway, 2002 **Heisenberg's Quantum Mechanics** Mohsen Razavy, 2011 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 quantal 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 *Holt Physics*, 2000-12

Books in Print Supplement, 2002 *Tstgen* Holt Rinehart & Winston, 1998-04 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 Teaching Introductory Physics American Association of Physics Teachers. Committee on Physics in Pre-College Education, 1974 *Achievement Testing in Physics, Selected Reprints* American Association of Physics Teachers, 1965 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

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