

5**ELECTRONS IN ATOMS****Practice Problems***In your notebook, solve the following problems.***SECTION 5.1 MODELS OF THE ATOM**

- How many sublevels are in the following principal energy levels?

a. $n = 1$	c. $n = 3$	e. $n = 5$
b. $n = 2$	d. $n = 4$	f. $n = 6$
- How many orbitals are in the following sublevels?

a. 1s sublevel	d. 4f sublevel	g. fifth principal energy level
b. 5s sublevel	e. 7s sublevel	h. 6d sublevel
c. 4d sublevel	f. 3p sublevel	
- What are the types of sublevels and number of orbitals in the following energy levels?

a. $n = 1$	c. $n = 3$	e. $n = 5$
b. $n = 2$	d. $n = 4$	

SECTION 5.2 ELECTRON ARRANGEMENT IN ATOMS

- Write a complete electron configuration of each atom.

a. hydrogen	d. barium	g. krypton
b. vanadium	e. bromine	h. arsenic
c. magnesium	f. sulfur	i. radon

SECTION 5.3 PHYSICS AND THE QUANTUM MECHANICAL MODEL

- What is the wavelength of the radiation whose frequency is $5.00 \times 10^{15} \text{ s}^{-1}$? In what region of the electromagnetic spectrum is this radiation?
- An inexpensive laser that is available to the public emits light that has a wavelength of 670 nm. What are the color and frequency of the radiation?
- What is the energy of a photon whose frequency is $2.22 \times 10^{14} \text{ s}^{-1}$?
- What is the frequency of a photon whose energy is $6.00 \times 10^{-19} \text{ J}$?
- Arrange the following types of electromagnetic radiation in order of increasing frequency.

a. infrared	c. visible light	e. microwaves
b. cosmic rays	d. radio waves	f. ultraviolet
- Suppose that your favorite AM radio station broadcasts at a frequency of 1600 kHz. What is the wavelength in meters of the radiation from the station?

Chapter 5 Supplemental Problems Electrons In Atoms

Answer Key

Siddappa N.Byrareddy



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Chemistry McGraw-Hill Staff,2001-03 **Chemistry** John S. Phillips,Cheryl Wistrom,2000 Fundamentals of Physics, , Problem Supplement No. 1 Jearl Walker,2001 This is a supplement to the text Fundamentals of Physics 6th Ed This supplement contains additional sample problems checkpoint style questions organizing questions discussion questions and new exercises and problems **Fundamentals of Physics, , Problem Supplement No. 1** David Halliday,Robert Resnick,Jearl Walker,2000-06-06 No other book on the market today can match the success of Halliday Resnick and Walker s Fundamentals of Physics In a breezy easy to understand style the book offers a solid understanding of fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving **Structural Methods in Molecular Inorganic Chemistry** D. W. H. Rankin,Norbert Mitzel,Carole Morrison,2013-01-02 Determining the structure of molecules is a fundamental skill that all chemists must learn Structural Methods in Molecular Inorganic Chemistry is designed to help readers interpret experimental data understand the material published in modern journals of inorganic chemistry and make decisions about what techniques will be the most useful in solving particular structural problems Following a general introduction to the tools and concepts in structural chemistry the following topics are covered in detail computational chemistry nuclear magnetic resonance spectroscopy electron paramagnetic resonance spectroscopy Mossbauer spectroscopy rotational spectra and rotational structure vibrational spectroscopy electronic characterization techniques diffraction methods mass spectrometry The final chapter presents a series of case histories illustrating how chemists have applied a broad range of structural techniques to interpret and understand chemical systems Throughout the textbook a strong connection is made between theoretical topics and the real world of practicing chemists Each chapter concludes with problems and discussion questions and a supporting website contains additional advanced material Structural Methods in Molecular Inorganic Chemistry is an extensive update and sequel to the successful textbook Structural Methods in Inorganic Chemistry by Ebsworth Rankin and Cradock It is essential reading for all advanced students of chemistry and a handy reference source for the professional chemist **Scientific and Technical Aerospace Reports** ,1966 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Development of Sustainable Bioprocesses** Elmar Heinzle,Arno P. Biwer,Charles L. Cooney,2007-01-11 Bioprocess technology involves the combination of living matter whole organism or enzymes with nutrients under laboratory conditions to make a desired product within the pharmaceutical food cosmetics biotechnology fine chemicals and bulk chemicals sectors Industry is under increasing pressure to develop new processes that are both environmentally friendly and cost effective and this can be achieved by taking a fresh look at process development namely by combining modern process modeling techniques with sustainability assessment methods Development of Sustainable Bioprocesses Modeling and Assessment describes methodologies and supporting case studies for

the evolution and implementation of sustainable bioprocesses Practical and industry focused the book begins with an introduction to the bioprocess industries and development procedures Bioprocesses and bioproducts are then introduced together with a description of the unit operations involved Modeling procedures a key feature of the book are covered in chapter 3 prior to an overview of the key sustainability assessment methods in use environmental economic and societal The second part of the book is devoted to case studies which cover the development of bioprocesses in the pharmaceutical food fine chemicals cosmetics and bulk chemicals industries Some selected case studies include citric acid biopolymers antibiotics biopharmaceuticals Supplementary material provides hands on materials so that the techniques can be put into practice These materials include a demo version of SuperPro Designer software used in process engineering and models of all featured case studies excel sheets of assessment methods Monte Carlo simulations and exercises Previously available on CD ROM the supplementary material can now be accessed via <http://booksupport.wiley.com> by entering the author name book title or isbn and clicking on the desired entry This will then give a listing of all the content available for download Please read any text files before downloading material

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