

1. Show the electron configurations of all the electrons that show the electron configurations of the highest-energy electron using the quantum number technique for each of the following atoms.

(a) carbon:  $1s^2, 2s^2, 2p^2$

Quantum #  $\begin{matrix} n & l \\ 2 & 1 \end{matrix}$

(b) Chromium<sup>+3</sup>:  $1s^2, 2s^2, 3s^2, 3p^4, 4s^2, 4d^3$

Quantum  $\begin{matrix} n & l \\ 3 & 2 \end{matrix}$

(c) Ca<sup>+2</sup>:  $1s^2, 2s^2, 2p^6, 3s^2$

Quantum #  $\begin{matrix} n & l \\ 3 & 0 \end{matrix}$

2. Calculate the energy needed to cause an electron to jump from the 3rd shell to the 2<sup>nd</sup> shell. Energy = .....

$$E = \Delta E_{\frac{1}{n_1}} = \frac{1}{n_1^2} \frac{1}{2} = 2.18 \cdot 10^{-18} J \cdot \frac{1}{4} = \frac{1}{4} \frac{1}{2} = 2.18 \cdot 10^{-18} J \cdot \frac{1}{4} \frac{1}{2} = 5.45 \cdot 10^{-19} J$$

3. Calculate the wavelength for the photon that will be emitted when an electron falls spontaneously to the 2nd shell of a hydrogen atom. Wavelength .....

$$E = h\nu = \frac{hc}{\lambda} \quad \lambda = \frac{hc}{E} \quad \text{from these we get:}$$

$$\lambda = \frac{hc}{\frac{1}{2^2} \frac{1}{2} - \frac{1}{3^2} \frac{1}{2}} = 6.58 \cdot 10^{-34} \text{ sec} \cdot 2.99 \cdot 10^8 \text{ m/sec} = 6.58 \cdot 10^{-26} \text{ m}$$

4. What does the solution to the Schrodinger equation for an electron represent?  
 The solution to the Schrodinger equation represents the energy of an electron in an atomic orbital described by the wavefunction  $\Psi$ .  
 $\hat{H}\Psi = E\Psi$

5. Draw the shape of the following orbitals.



# Core Teaching Resources Chemistry Chapter 7 Answer Key

**Espinosa, Edgar Oliver Cardoso**



## **Core Teaching Resources Chemistry Chapter 7 Answer Key:**

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**Principles of Environmental Chemistry** James Girard, 2013 Written for science majors who have completed a general chemistry course Principles of Environmental Chemistry Third Edition enables students to understand the underlying chemical processes that are operating in the environment while demonstrating how difficult it is to measure these systems It emphasizes that all living and nonliving parts of our environment are made up of chemicals and that all of the natural processes continuously occurring in the environment involve chemical reactions With this concept of interdependence students begin to see that without some understanding of chemistry it is impossible to fully understand environmental issues such as ozone depletion global warming air and water pollution and the hazards of radioactivity The Third Edition includes a new chapter on Green Chemistry as well as numerous updates throughout to address the changes in the field Key Features Includes a new chapter on Green Chemistry A new key term glossary is now included at the end of the text New feature boxes assess students understanding of chapter material with analytical questions and problems Includes additional chemical equations throughout the text A new electronic student study guide and solutions manual is available with the third edition Instructor s resources include PowerPoint Lecture Outlines answers to end of chapter problems and a testbank A student companion website includes chapter outlines interactive glossary flashcards and weblinks      *Basic Concepts of Chemistry* Leo J. Malone, Theodore O. Dolter, 2011-12-27 The 9th edition of Malone s Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition

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*Photosynthesis/Cell Response Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Principles of Environmental Geochemistry** G. Nelson Eby, 2016-04-20 Many geochemists focus on natural systems with less emphasis on the human impact on those systems Environmental chemists frequently approach their subject with less consideration of the historical record than geoscientists The field of environmental geochemistry combines these approaches to address questions about the natural environment and anthropogenic effects on it Eby provides students with a solid foundation in basic aqueous geochemistry before discussing the important role carbon compounds isotopes and minerals play in environmental issues He then guides students through how these concepts apply to problems facing our atmosphere continental lands and oceans Rather than broadly discussing a variety of environmental problems the author focuses on principles throughout the text leading students to understand processes and how knowledge of those processes can be applied to environmental problem solving A wide variety of case studies and quantitative problems accompany each chapter giving each instructor the flexibility to tailor the material to his her course Many problems have no single correct answer illustrating the analytical nature of solving real world environmental problems **Rational Design of Next-generation Nanomaterials and Nanodevices for Water Applications** Peng Wang, 2016-08-15 Despite the fact that nanotechnology has been present for a few decades there is a big gap between how nanotechnology is perceived and what nanotechnology can truly offer in all sectors of water The question to be answered is what more can we expect from nanotechnology in the water field The rational nano design starts with well defined problem definitions necessitates interdisciplinary approaches involves think outside the box and represents the future growth point of environmental nanotechnology However it is still largely new to the educated public and even scientists and engineers in water fields Therefore it is the purpose of this book to promote the concept of rational nano design and to demonstrate its creativity innovation and excitement This book presents a series of carefully selected rationally designed nano materials devices surfaces which represent drastically different ground breaking



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Malone,2000-04-18

### **Developing Mathematical Literacy in the Context of the Fourth Industrial Revolution**

Espinosa, Edgar Oliver Cardoso,2021-03-12 In the context of the Fourth Industrial Revolution a world of continuous alterations is glimpsed where science and technology are at the base of economic competitiveness and where innovation plays a strategic role in global competition so that they are forced to cover a series of requirements to compete successfully in an increasingly globalized economy including high investments in both education and research Along these lines the formation of mathematical learning is important because it is oriented towards the development of a set of skills with the aim of resolving situations of daily and professional lives It focuses on the acquisition of employing the different ways of representing information in the form of models constructions and graphs to determine the best decision making In this sense it includes the mastery of the handling of numbers measures and structures to carry out the interpretation of operations and representations of a quantitative nature on personal and professional situations For a society to favor innovation the use of mathematical information is an essential condition that allows the development of creativity and analysis of information Mathematics education plays a vital role in this development Developing Mathematical Literacy in the Context of the Fourth Industrial Revolution studies the formation of mathematical abilities in the context of the Fourth Industrial Revolution regarding its development of both teaching and learning strategies as well as the use of ICT and its use in the development of this discipline in students It is important that teachers of any educational level reorient their teaching strategies and their role as educators Therefore the chapters discuss up to date and relevant information on teaching and didactic tasks in the

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