

25

NUCLEAR CHEMISTRY

Practice Problems

For your assessment, solve the following problems.

SECTION 25.1 NUCLEAR RADIATION

1. What happens to the mass number and atomic number of an atom that undergoes beta decay?
2. A radioactive isotope of an element undergoes alpha particle decay. What are the atomic number and mass number of the particle released?
3. Give the composition of the nucleus of the following isotopes.
 - a. ^{110}Ag
 - b. ^{111}Ag
 - c. ^{112}Ag
4. Complete each of the following equations.
 - a. $^{14}\text{N} \rightarrow \text{Xe} + \text{?}$
 - b. $^{235}\text{U} \rightarrow \text{Xe} + \text{?}$
 - c. $^{238}\text{U} \rightarrow \text{Xe} + \text{?}$

SECTION 25.2 NUCLEAR TRANSFORMATIONS

1. Write a nuclear equation for the following radioactive processes.
 - a. alpha decay of thorium-230
 - b. electron capture by boron-11
 - c. beta emission by argon-37
 - d. proton emission by fluorine-17
2. Complete the equations for these beta decay series.
 - a. $\text{Ra} \rightarrow \text{Xe} \rightarrow \text{Rb} \rightarrow \text{?}$
 - b. $^{137}\text{Cs} \rightarrow \text{Xe} \rightarrow \text{?} \rightarrow \text{^{133}Xe} \rightarrow \text{Xe}$
 - c. $\text{Ra} \rightarrow \text{Rb} \rightarrow \text{?} \rightarrow \text{Xe}$
 - d. $^{137}\text{Cs} \rightarrow \text{Rb} \rightarrow \text{?} \rightarrow \text{Xe} \rightarrow \text{?} \rightarrow \text{Xe}$
 - e. $\text{Xe} \rightarrow \text{?} \rightarrow \text{^{133}Cs} \rightarrow \text{Rb} \rightarrow \text{?} \rightarrow \text{Xe}$
3. Polonium-214 has a relatively short half-life of 1.64 s. How many atoms would it take for 1.00 g of this isotope to decay to 0.001 g?
4. If one atom loses about 0.001 g of protactinium-231 to decay to 1.0 g, the half-life of protactinium-231 is 1.2 years.
5. By approximately what factor would the mass of an sample of copper-63 decrease in 10 minutes? The half-life of copper-63 is 1.78 years.
6. If a 5.00 g sample, 0.001 g of copper-63 decays to 0.10 g, what is the half-life of copper-63?

Study Guide Nuclear Radiation Answers

Leo J. Malone, Theodore O. Dolter

Study Guide Nuclear Radiation Answers:

Study Guide with Answers to Selected Problems H. Stephen Stoker,Danny V. White,2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone,Theodore O. Dolter,2012-01-03 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 A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem 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 continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

Study Guide with Selected Solutions Karen Timberlake,2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

Student Study Guide and Solutions

Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston,Denniston Katherine,2006

General, Organic, and Biochemistry Study Guide Marcia L. Gillette,Ira Blei,Wendy Gloffke,George Odian,2006-01-27 This study guide provides reader friendly reinforcement of the concepts covered in the textbook Features include Chapter outlines Are you able to Worked text problems Fill ins Test yourself Concept maps Can also be used for Blei and Odian s Organic and Biochemistry

Excel Science Study Guide, Years 9-10 Will Marchment,2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions

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