

25

NUCLEAR CHEMISTRY

Practice Problems

In your notebook, solve the following problems.

SECTION 25.1 NUCLEAR RADIATION

- What happens to the mass number and atomic number of an atom that undergoes beta decay?
- A nuclide of an element undergoes alpha particle decay. How do the atomic number and mass number of the particle change?
- Give the composition of the nucleus of the following isotopes.
 - $^{224}_{86}\text{Rn}$
 - $^{133}_{55}\text{Cs}$
 - $^{135}_{52}\text{Te}$
- Complete each of the following equations.
 - $^{238}_{92}\text{U} \rightarrow ^{234}_{90}\text{Th} + ?$
 - $^{226}_{88}\text{Ra} \rightarrow ^{222}_{86}\text{Rn} + ?$
 - $^{234}_{90}\text{Th} \rightarrow ^{234}_{91}\text{Pa} + ?$

SECTION 25.2 NUCLEAR TRANSFORMATIONS

- Write a nuclear equation for the following radioactive processes.
 - alpha decay of francium-223
 - electron capture by beryllium-7
 - beta emission by argon-37
 - positron emission by boron-12
- Complete the equations for these transmutation reactions.
 - $^{24}_{12}\text{Mg} + ^4_2\text{He} \rightarrow ^{28}_{14}\text{Si} + ?$
 - $^{238}_{92}\text{U} + ^4_2\text{He} \rightarrow ? + ^{232}_{90}\text{Th} + ^4_2\text{He}$
 - $^{240}_{94}\text{Pu} + ^1_0\text{n} \rightarrow ? + ^{140}_{54}\text{Xe}$
 - $^{238}_{92}\text{U} \rightarrow ^{234}_{90}\text{Th} + ? + ^4_2\text{He}$
 - $^9_4\text{Be} + ? \rightarrow ^{12}_{6}\text{C} + ^4_2\text{He} + 2^1_0\text{n}$
- Po-214 has a relatively short half-life of 164 s. How many micrograms would it take for 0.5 g of this isotope to decay to 0.25 g?
- How many days does it take for 16 g of polonium-210 to decay to 1.0 g? The half-life of polonium-210 is 137 days.
- By approximately what factor would the mass of a sample of copper-66 decrease in 50 minutes? The half-life of copper-66 is 5.48 min.
- In 5.48 minutes, 1.00 g of argon-39 decays to leave only 0.12 g. What is the half-life of argon-39?

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Table of Contents Study Guide Nuclear Radiation Answers

1. Understanding the eBook Study Guide Nuclear Radiation Answers
 - The Rise of Digital Reading Study Guide Nuclear Radiation Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Nuclear Radiation Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Nuclear Radiation Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Nuclear Radiation Answers

- Personalized Recommendations
- Study Guide Nuclear Radiation Answers User Reviews and Ratings
- Study Guide Nuclear Radiation Answers and Bestseller Lists
- 5. Accessing Study Guide Nuclear Radiation Answers Free and Paid eBooks
 - Study Guide Nuclear Radiation Answers Public Domain eBooks
 - Study Guide Nuclear Radiation Answers eBook Subscription Services
 - Study Guide Nuclear Radiation Answers Budget-Friendly Options
- 6. Navigating Study Guide Nuclear Radiation Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide Nuclear Radiation Answers Compatibility with Devices
 - Study Guide Nuclear Radiation Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Nuclear Radiation Answers
 - Highlighting and Note-Taking Study Guide Nuclear Radiation Answers
 - Interactive Elements Study Guide Nuclear Radiation Answers
- 8. Staying Engaged with Study Guide Nuclear Radiation Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Nuclear Radiation Answers
- 9. Balancing eBooks and Physical Books Study Guide Nuclear Radiation Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Nuclear Radiation Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Nuclear Radiation Answers
 - Setting Reading Goals Study Guide Nuclear Radiation Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Nuclear Radiation Answers

- Fact-Checking eBook Content of Study Guide Nuclear Radiation Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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