

balance nuclear reaction equations

aluminum-26 undergoes positron emission
potassium-40 undergoes beta decay (electron)
uranium-238 undergoes alpha decay



electron configurations

Write the electron configuration for C.

Write the electron configuration for Cr.

Write the shorthand notation for Bi.



NOMENCLATURE [naming compounds, writing formulas]

Write the formula for each of the following compounds:

- a. Sulfur hexafluoride SF_6
- b. Lithium nitride Li_3N
- c. Chromium (III) carbonate $\text{Cr}_2(\text{CO}_3)_3$
- d. Tin (II) chloride SnCl_2
- e. Ammonium acetate $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ (or $\text{CH}_3\text{COONH}_4$)
- f. Mercury (I) chloride Hg_2Cl_2
- g. Potassium bromate KBrO_3
- h. Hydrosulfuric acid $\text{H}_2\text{S(aq)}$
- i. Chloric acid HClO_3
- j. Sulfurous acid H_2SO_3

Name each of the following compounds.

- a. CuSO_4 Copper (II) sulfate
- b. AlF_3 aluminum fluoride
- c. HI hydrogen iodide
- d. NO nitrogen monoxide
- e. $\text{H}_2\text{Se(aq)}$ hydroselenic acid
- f. HNO_3 nitric acid
- g. HNO_2 nitrous acid
- h. NaHSO_4 sodium hydrogen sulfate

Half-life

Tritium (H-3) is a radioactive isotope of hydrogen with a half-life of 12.3 years. How long would it take for a 40.0 g sample to decay down to 1.25 g?

$$40 \xrightarrow{1} 20 \xrightarrow{2} 10 \xrightarrow{3} 5 \xrightarrow{4} 2.5 \xrightarrow{5} 1.25$$

Fe-61 has a half-life of 6.00 min. Of a 100.0 mg sample, how much will remain after 18.0 min?

$$3 \text{ half lives} \quad 100 \xrightarrow{1} 50 \xrightarrow{2} 25 \xrightarrow{3} 12.5 \text{ mg}$$

Average atomic mass

The element copper has naturally occurring isotopes with mass numbers of 63 and 65.

The relative abundance and atomic masses are 69.2% for a mass of 63amu and 30.8% for a mass of 65amu. Calculate the average atomic mass of copper.

$$\begin{array}{rcl} 63 \times .692 & = & 43.596 \rightarrow 44 \\ 65 \times .308 & = & 20.02 \rightarrow 20. \\ + & & \\ \hline & & 63.62 \rightarrow 64 \end{array}$$

Modern Chemistry Section 7 Review Answers

Yijin Wang



Modern Chemistry Section 7 Review Answers:

Modern Chemistry Section 7 Review Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Modern Chemistry Section 7 Review Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Modern Chemistry Section 7 Review Answers

1. Understanding the eBook Modern Chemistry Section 7 Review Answers
 - The Rise of Digital Reading Modern Chemistry Section 7 Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Chemistry Section 7 Review 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 eBook
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Chemistry Section 7 Review Answers
 - Personalized Recommendations
 - Modern Chemistry Section 7 Review Answers User Reviews and Ratings

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