

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 Chapter 7 Homework Answers

Ralph H. Petrucci



Modern Chemistry Chapter 7 Homework Answers:

Molecular Mechanics Across Chemistry Anthony K. Rappé, Carla J. Casewit, 1997-05-07 The remarkable breadth of modern molecular mechanics is covered in this textbook developed for an undergraduate or first time course on molecular mechanics The book uses a case study approach designed to give readers exposure to the relevance and utility of molecular mechanics as well as the opportunity to study a particular problem and its solution in depth The remarkable breadth of modern molecular mechanics is covered in this textbook developed for an undergraduate or first time course on molecular mechanics The book uses a case study approach designed to give readers exposure to the relevance and utility of molecular mechanics as well as the opportunity to study a particular problem and its solution in depth **Books in Print**

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Petrucci, 1989 *Chemistry in the Modern World* Frank L. Wiseman, 1985 **Proceedings of the 2024 9th International Conference on Modern Management, Education and Social Sciences (MMET 2024)** Chunyi Lin, Fong Peng Chew, Intakhab Alam Khan, Catalin Popescu, 2024-12-07 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all Such endeavors are making new contributions to the globalization and creating a community of shared future To adapt to this changing world and China s fast development in the new era 2024 9th International Conference on Modern Management Education and Social Sciences MMET 2024 to be held in September 20 22 2024 This conference takes bringing together global wisdom in scientific innovation to promote high quality development as the theme and focuses on cutting edge research fields including

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,1968-07 **Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant , Soviet Electrochemistry** ,1975 Chemistry Martin Stuart Silberberg,1996 This general chemistry text centres on the theme that observable change in chemical systems is the result of molecular change The aims of this edition are to enable students to perceive matter and change at the molecular level and to help build student confidence in their ability to solve chemical problems as they discover the relevance of chemistry to their lives **Glencoe Earth Science** Ralph M. Feather,1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 **Linear Algebra** David Poole,2005 David Poole s innovative book emphasizes vectors and geometric intuition from the start and better prepares students to make the transition from the computational aspects of the course to the theoretical Poole covers vectors and vector geometry first to enable students to visualize the mathematics while they are doing matrix operations With a concrete understanding of vector geometry students are able to visualize and understand the meaning of the calculations that they will encounter By seeing the mathematics and understanding the underlying geometry students develop mathematical maturity and can think abstractly when they reach vector spaces Throughout the text Poole s direct conversational writing style connects with students and an abundant selection of applications from a broad range of disciplines clearly demonstrates the relevance of linear algebra

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