

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 ($\text{H}-3$) 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?

$$40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5 \rightarrow 1.25$$

1 2 3 4 5 61.5 yr

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

$$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \text{ mg}$$

1 2 3 12.5 mg

3 half lives

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 15 Mixed Review Answers

Nicholas D. Tzimopoulos



Modern Chemistry Chapter 15 Mixed Review Answers:

Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 *Modern Chemistry* Nicholas D. Tzimopoulos, 1993 **Modern Powder Diffraction** David L. Bish, Jeffrey E. Post, 2018-12-17 Volume 20 of *Reviews in Mineralogy* attempted to 1 provide examples illustrating the state of the art in powder diffraction with emphasis on applications to geological materials 2 describe how to obtain high quality powder diffraction data and 3 show how to extract maximum information from available data In particular the nonambient experiments are examples of some of the new and exciting areas of study using powder diffraction and the interested reader is directed to the rapidly growing number of published papers on these subjects Powder diffraction has evolved to a point where considerable information can be obtained from μg sized samples where detection limits are in the hundreds of ppm range and where useful data can be obtained in milliseconds to microseconds We hope that the information in this volume will increase the reader's access to the considerable amount of information contained in typical diffraction data **The Al_2SiO_5 Polymorphs** Derrill M. Kerrick, 2018-12-17 Volume 22 of *Reviews in Mineralogy* is a book exclusively devoted to three minerals the Al_2SiO_5 polymorphs andalusite sillimanite and kyanite It covers a wide variety of topics that must be considered in the analysis of metamorphic systems and illustrates the fact that modern metamorphic petrology demands an awareness of a wide spectrum of geologic variables and processes This volume is intended to provide a comprehensive review summarizing the methods theories and pitfalls of the various contributions on the aluminum silicates Several sections of this book present the chronological development of research on various topics giving readers historical perspectives on the development of theories models and biases on various problems regarding the aluminum silicates **Practical Chemistry** Newton Henry Black, James Bryant Conant, 1920 *The Publishers' Circular and Booksellers' Record*, 1915 **Geochemistry and Mineralogy of Rare Earth Elements** Bruce R. Lipin, G.A. McKay, 2018-12-17 Volume 21 of *Reviews in Mineralogy* treats a short course on the rare earth elements to about 80 participants in San Francisco California December 1-3 1989 just prior to the fall meeting of the American Geophysical Union Contents Cosmochemistry of the Rare Earth Elements Condensation and Evaporation Processes Radiogenic Isotope Geochemistry of Rare Earth Elements Partitioning of Rare Earth Elements between Major Silicate Minerals and Basaltic Melts An Approach to Trace Element Modeling Using a Simple Igneous System as an Example Rare Earth Elements in Upper Mantle Rocks Rare Earth Elements in Metamorphic Rocks Rare Earth Elements in Sedimentary Rocks Influence of Provenance and Sedimentary Processes Aqueous Geochemistry of Rare Earth Elements Rare Earth Elements in Lunar Materials Compositional and Phase Relations among Rare Earth Element Minerals Economic Geology of Rare Earth Minerals Cathodoluminescence Emission Spectra of Rare Earth Element Activators in Minerals *Saturday Review*, 1876 **The Publisher**, 1915 **Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1915 *British Books*, 1915 **The Electrical Engineer**, 1907 *Mineral-Water Interface*

Geochemistry Michael F. Hochella, Art F. White, 2018-12-17 Volume 23 of Reviews in Mineralogy and accompanying MSA short course covers chemical reactions that take place at mineral water interfaces We believe that this book describes most of the important concepts and contributions that have driven mineral water interface geochemistry to its present state We begin in Chapter 1 with examples of the global importance of mineral water interface reactions and a brief review of the contents of the entire book Thereafter we have divided the book into four sections including atomistic approaches Chapters 2 3 adsorption Chapters 4 8 precipitation and dissolution Chapters 9 11 and oxidation reduction reactions Chapters 11 14

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