

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 Gases Section 2 Review Answers

R Bogdan



Modern Chemistry Gases Section 2 Review Answers:

Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 **Modern Chemistry**, 1990

The Chemical Age, 1922 List, 1948 *Chemical Age*, 1921 The Medical Times and Gazette, 1885

Fundamentals of Ecotoxicology Michael C. Newman, 2019-11-27 This new edition is revised throughout and includes new and expanded information on natural resource damage assessment the latest emerging contaminants and issues and adds new international coverage including case studies and rules and regulations The text details key environmental contaminants explores their fates in the biosphere and discusses bioaccumulation and the effects of contaminants at increasing levels of ecological organization Vignettes written by experts illustrate key themes or highlight especially pertinent examples This edition offers an instructors solution manual PowerPoint slides and supplemental images Features Adds all new discussions of natural resource damage assessment concepts and approaches Includes new vignettes written by leading guest authors Draws on materials from 2 500 cited sources including 400 new to this edition Adds numerous new entries to a useful glossary of 800 terms Includes a new appendix discussing Brazilian environmental laws and regulations added to existing appendices outlining U S E U Chinese Australian and Indian environmental laws Fundamentals of Ecotoxicology The Science of Pollution Fifth Edition contains a broad overview of ecotoxicology and provides a basic understanding of the field Designed as a textbook for use in introductory graduate or upper level undergraduate courses in ecotoxicology applied ecology environmental pollution and environmental science it can also be used as a general reference for practicing environmental toxicologists British Books, 1922 **Industrial Engineering and the Engineering Digest**, 1907 **The Chemical News and Journal of Industrial Science**, 1913 The Chemical News, 1906 The Chemical News and Journal of Physical Science, 1912 **Chemical Engineering Catalog**, 1919 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain), 1925 Includes list of members 1882 1902 proceedings of the annual meetings and various supplements **Digest**, 1904 **World History**, 2000 **Iron & Coal Trades Review**, 1921 Vol 115 includes Diamond jubilee issue 1867 1927 **Chemical News and Journal of Physical Science**, 1908 **Scientific American**, 1895 **Nuclear Science Abstracts**, 1963

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