

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?

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

1 2 3 4 5 61.5yr

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 12.5mg

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.

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

Oars Chemistry Final Answers

Brendan G. Carr



Oars Chemistry Final Answers:

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Subcommittee on VA-HUD-Independent Agencies,2001 *Commerce, Justice, Science, and Related Agencies Appropriations for 2012* United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2011 **ServSafe? Coursebook with Exam Answer Sheet** National Restaurant Association Educational Foundation,2001-05-30 This all inclusive book provides a wealth of food safety information and supplies functional guidance on food quality maximum storage periods and crisis management It conveys to employees and managers the principles necessary to maintain food safety in an operation and how to protect against foodborne illness outbreaks More than 1 3 million professionals have been certified through the ServSafe Food Protection Manager Certification Examination ServSafe is a registered trademark of the National Restaurant Association Educational Foundation **AIIMS Delhi Staff Nurse Exam | All India Institute of Medical Sciences | 10 Full-length Mock Tests (2000+ Solved Questions)** EduGorilla Prep Experts,2022-08-03 Best Selling Book for AIIMS Delhi Staff Nurse Exam with objective type questions as per the latest syllabus given by the All India Institute of Medical Sciences Compare your performance with other students using Smart Answer Sheets in EduGorilla s AIIMS Delhi Staff Nurse Exam Practice Kit AIIMS Delhi Staff Nurse Exam Preparation Kit comes with 10 Mock Tests with the best quality content Increase your chances of selection by 14X AIIMS Delhi Staff Nurse Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts

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