

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 4 Review Answers

Ralph H. Petrucci



Modern Chemistry Chapter 4 Review Answers:

Modern NMR Approaches to the Structure Elucidation of Natural Products Antony Williams, Gary Martin, David Rovnyak, 2016-12-12 The Ghanian plant *Cryptolepis sanguinolenta* is the source of a series of fascinating indoloquinoline alkaloids. The most unusual member of this alkaloid series was initially proposed to be a spiro nonacyclic structure named cryptospirolepine and was elucidated in 1993 based on the technologies available at that time. There were however several annoying attributes to the structure that bothered analysts for the ensuing 22 years. During the two decades that followed the initial work there have been enormous developments in NMR technology. Using new experimental approaches specifically homodecoupled $1D$ and $2D$ HD ADEQUATE NMR experiments developed in 2014 the structure of only a 700 g sample of cryptospirolepine has been revised and is shown on the cover of this volume. The confluence of the NMR technological and methodological advances that allowed the revision of the structure of cryptospirolepine using a submilligram sample seems a fitting example for this book which is dedicated to the NMR characterization of various classes of natural products. Volume 2 considers data processing and algorithmic based analyses tailored to natural product structure elucidation and reviews the application of NMR to the analysis of a series of different natural product families including marine natural products, terpenes, steroids, alkaloids and carbohydrates. Volume 1 discusses contemporary NMR approaches including optimized and future hardware and experimental approaches to obtain both the highest quality and most appropriate spectral data for analysis. These books bringing together acknowledged experts uniquely focus on the combination of experimental approaches and modern hardware and software applied to the structure elucidation of natural products. The volumes will be an essential resource for NMR spectroscopists, natural product chemists and industrial researchers working on natural product analysis or the characterization of impurities and degradation products of pharmaceuticals that can be as scarce as natural product samples.

Organic Synthesis Michael Smith, 2011-07-12 The first two chapters provide an introduction to functional groups, these are followed by chapters reviewing basic organic transformations e.g. oxidation, reduction. The book then looks at carbon-carbon bond formation reactions and ways to disconnect a bigger molecule into simpler building blocks. Most chapters include an extensive list of questions to test the reader's understanding. There is also a new chapter outlining full retrosynthetic analyses of complex molecules which highlights common problems made by scientists.

Basic Concepts of Chemistry, Study Guide Leo J. Malone, 2000 The text's three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry. Designed to help readers master the principles of general chemistry. As a prep book it promotes active involvement with the material. There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills. Updated to include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems.

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Operation of Wastewater Treatment Plants**, 2004 **Study Guide to accompany Basic Concepts of Chemistry, 7th Edition** Leo J.

Malone, 2003-02-20 Work more effectively and gauge your progress along the way This Study Guide that is designed to accompany Malone's Chemistry 7th Edition includes chapter summaries new terms self tests answers to self tests and solutions to selected problems This easy to read introduction presents chemistry as a living relevant science Chemistry 7th Edition encourages critical thinking and helps readers overcome the math difficulties that often prevent them from developing a full understanding of the subject This new seventh edition builds on its core strengths of pedagogy driving the connections between ideas mathematics in context not just an appendix and an extensive problem solving emphasis with an updated design and more molecular art In addition the seventh edition expands its applications and online options One of the briefest books in the market it still provides sufficient depth for the basic concepts of chemistry Medicinal Chemistry Norma K Dunlap, Donna M Huryn, 2025-11-28 This book provides a concise introduction to the medicinal chemistry of therapeutically active compounds Written in an accessible style it offers a brief overview of the drug development process from discovery to approved drug Emphasizing medicinal chemistry strategies the content is organized by target as well as therapeutic area drug classes It covers existing drugs and the discovery process that led to their development Aimed at students and professionals interested in drug discovery Medicinal Chemistry requires little prior knowledge making it ideal for classroom and training seminar use Written by experts in the field this outstanding new edition explains medicinal chemistry on chemical mechanism terms allowing for a more interesting and user friendly text Includes valuable insights toward the various pathways taken by the pharmaceutical industry in drug discoveries Enhanced text includes questions raised and suggestions made from students in the authors medicinal chemistry class Content provided to enhance the text includes a solutions manual PowerPoint slides for lecture outlines and especially for the earlier chapters a selection of videos An accompanying website will be updated to include additional material 1 Journal Club exercises current journal articles with guiding questions for student analysis two per chapter 2 additional case studies 3 organic synthesis analysis selected syntheses both discovery and process will be discussed and 4 updates on current advances in the field of medicinal chemistry The book benefits a diverse audience including upper level undergraduates and graduates who are studying in the fields of medicinal chemistry and drug discovery as well as scientists working in the pharmaceutical industry World History, 2000

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