

### 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  $\text{SF}_6$
- b. Lithium nitride  $\text{Li}_3\text{N}$
- c. Chromium (III) carbonate  $\text{Cr}_2(\text{CO}_3)_3$
- d. Tin (II) chloride  $\text{SnCl}_2$
- 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  $\text{Hg}_2\text{Cl}_2$
- g. Potassium bromate  $\text{KBrO}_3$
- h. Hydrosulfuric acid  $\text{H}_2\text{S(aq)}$
- i. Chloric acid  $\text{HClO}_3$
- j. Sulfurous acid  $\text{H}_2\text{SO}_3$

Name each of the following compounds:

- a.  $\text{CuSO}_4$  Copper (II) sulfate
- b.  $\text{AlF}_3$  aluminum fluoride
- c.  $\text{HI}$  hydrogen iodide
- d.  $\text{NO}$  nitrogen monoxide
- e.  $\text{H}_2\text{Se(aq)}$  hydroselenic acid
- f.  $\text{HNO}_3$  nitric acid
- g.  $\text{HNO}_2$  nitrous acid
- h.  $\text{NaHSO}_4$  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?



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



### 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.



# Modern Chemistry Section Review Answers Chapter 28

**Andrew Streitwieser, Clayton H.  
Heathcock**



## Modern Chemistry Section Review Answers Chapter 28:

*Modern Chemistry* Nicholas D. Tzimopoulos,1993      **Fundamentals of Biochemistry** Donald Voet,Judith G. Voet,Charlotte W. Pratt,2016-02-29 Voet Voet and Pratt s *Fundamentals of Biochemistry* 5th Edition addresses the enormous advances in biochemistry particularly in the areas of structural biology and Bioinformatics by providing a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future While continuing in its tradition of presenting complete and balanced coverage that is clearly written and relevant to human health and disease *Fundamentals of Biochemistry* 5e includes new pedagogy and enhanced visuals that provide a pathway for student learning

Modern Chemistry Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001      **Introduction to General, Organic, and Biochemistry** Morris Hein,1997 The authors recognize that both science and mathematics may be daunting subjects for many students taking this course With this in mind they have anticipated where students might stumble and have paced and organized this text to help them through Their goal is to make the material interesting and relevant so students understand the basic chemical principles related to their career The authors emphasize problem solving and provide a range of practice exercises As in previous editions the text first presents the basic concepts of general chemistry and then moves into organic and biochemistry In this edition the first two sections have been revised primarily to improve explanations and include new pedagogical features The biochemistry portion has been thoroughly updated to include coverage of many recent developments and emerging technologies in the field

Chemistry and Industry Review ,1930      Electrochemistry in Nonaqueous Solutions Kosuke Izutsu,2002-05-06 Nonaqueous solutions are equally indispensable to electrochemistry Here Kosuke Izutsu brilliantly illustrates the numerous aspects of this fascinating topic whether the focus be on physicochemical processes or analytical methods The author discusses solvation and solvent effects emphasizing dynamic aspects important reactions including ionic and supercritical media as well as advanced techniques in polarography and voltammetry Throughout he effortlessly manages to provide a comprehensive overview while also presenting the very latest developments A number of example applications further enhance the practical value of this book and give it the feel of a reference work Written for both users and specialists this volume represents a wealth of vital information and belongs on every bookshelf

*The Journal of Education* ,1889      *Merrill Chemistry* Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998      **The Chemical Age** ,1923      **Athenaeum and London Literary Chronicle** ,1871      **Colliery Guardian, and Journal of the Coal and Iron Trades** ,1922      *The School World* ,1905      Introduction to Organic Chemistry Andrew Streitwieser,Clayton H. Heathcock,1985      Athenaeum ,1864      **Cumulative Index to a Selected List of Periodicals** ,1903      *New Technical Books* ,1926      *The Athenaeum* ,1864      **The Agricultural Gazette and Modern Farming** ,1907      **Educational Times** ,1892      **Live Stock Journal** ,1914

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web the film featuring a cast of ted neeley carl anderson yvonne elliman barry dennen bob bingham larry marshall josh mostel kurt yaghjian and philip toubus centers on the conflict between judas and jesus 4 during the week of the crucifixion of jesus

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web movie info adapted from andrew lloyd webber and tim rice s broadway rock opera jesus christ superstar recounts the last days of jesus christ ted neeley from the perspective of judas iscariot

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web jesus christ superstar is a sung through rock opera with music by andrew lloyd webber and lyrics by tim rice loosely based on the gospels accounts of the passion the work interprets the psychology of jesus and other characters with much of the plot centered on judas who is dissatisfied with the direction in which jesus is

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