

# Chapter 4: Supramolecular Problems - Answers

1. Assign the oxidation number to each atom in the following elements, molecules and ionic substances:

- a)  $\text{CO}_2$       b)  $\text{CH}_4$       c)  $\text{HNO}_3$       d)  $\text{Ca(OH)}_2$       e)  $\text{H}_2\text{SO}_4$       f)  $\text{Ag}$   
 $\text{C} = +4$        $\text{C} = -4$        $\text{N} = +5$        $\text{Ca} = +2$        $\text{S} = +6$        $\text{Ag} = 0$   
 $\text{O} = -2$        $\text{H} = +1$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{Ag} = 0$
- g)  $\text{Fe}$       h)  $\text{BaCl}_2$       i)  $\text{CO}_2$       j)  $\text{H}_2\text{O}$       k)  $\text{HNO}_3$       l)  $\text{Fe}$   
 $\text{Fe} = 0$        $\text{Ba} = +2$        $\text{C} = +4$        $\text{H} = +1$        $\text{N} = +5$        $\text{Fe} = 0$   
 $\text{Cl} = -1$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{Fe} = 0$

2. Assign the oxidation number to each atom in the following ions:

- a)  $\text{NO}^+$       b)  $\text{CO}_3^{2-}$       c)  $\text{HNO}_2$       d)  $\text{SO}_4^{2-}$       e)  $\text{PO}_4^{3-}$       f)  $\text{HCO}_3^-$   
 $\text{N} = +2$        $\text{C} = +3$        $\text{N} = +3$        $\text{S} = +6$        $\text{P} = +5$        $\text{C} = +3$   
 $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$        $\text{O} = -2$

3. For the following reactions identify if it is an oxidation-reduction reaction. If it is a redox reaction identify the oxidizing agent, the reducing agent, the substance being oxidized and the substance being reduced. Identify the oxidation number change to help to support these observations:



Redox rxn.  $\text{Ca}$  oxidized (oxidizing agent);  $\text{HCl}$  is  $\text{H}^+ \rightarrow \text{H}_2$   
 $\text{HCl}$  reduced (redox-reducing agent);  $\text{HCl}$  is  $\text{H}^+ \rightarrow \text{H}_2$



Not a redox rxn.  $\text{Ca}$  is  $\text{Ca}^{2+}$  both reactant and product



Redox rxn.  $\text{H}_2$  oxidized (oxidizing agent);  $\text{H}_2$  is  $\text{H}^+ \rightarrow \text{H}_2$   
 $\text{H}_2$  reduced (redox-reducing agent);  $\text{H}_2$  is  $\text{H}^+ \rightarrow \text{H}_2$



Not a redox reaction. No change in val #



# Mastering Chemistry College Chemistry Answer Key

**Janice Smith**



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**Chemistry** Morris Hein, Susan Arena, 2013-01-01 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years Foundations of College Chemistry Alternate 14th Edition has helped readers master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis **Ebook: Organic Chemistry** Janice Smith, 2014-10-16 Serious

Science with an Approach Built for Today s Students Smith s Organic Chemistry continues to breathe new life into the organic chemistry world This new fourth edition retains its popular delivery of organic chemistry content in a student friendly format Janice Smith draws on her extensive teaching background to deliver organic chemistry in a way in which students learn with limited use of text paragraphs and through concisely written bulleted lists and highly detailed well labeled teaching illustrations Don t make your text decision without seeing Organic Chemistry 4th edition by Janice Gorzynski Smith

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*Textbooks in Print*, 1984      **High School Chemistry Unlocked** The Princeton Review, 2016-10-18 UNLOCK THE SECRETS OF CHEMISTRY with THE PRINCETON REVIEW High School Chemistry Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of chemistry With this book you ll move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of chemistry from atoms to alpha radiation Don t feel locked out Everything You Need to Know About Chemistry Complex concepts explained in straightforward ways Walk throughs of sample problems for all topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common subjects Practice Your Way to Excellence 165 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you ll find on the AP Chemistry Exam and the SAT Chemistry Subject Test High School Chemistry Unlocked covers Building blocks of matter Physical behavior of matter Chemical bonding Chemical reactions Stoichiometry Solutions Acids and bases Equilibrium Organic chemistry Radioactivity and more      **Foundations of College Chemistry** Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need This International Adaptation offers new and updated content with improved presentation of all course material It builds on the strengths of previous editions including clear explanations and step by step problem solving The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry There is new and expanded coverage of polarizing power and polarizability Fajans rules collision number and mean free path abnormal molecular masses and van t Hoff factor and applications of radioactivity

General College Chemistry Charles William Keenan, Donald C. Kleinfelter, Jesse Hermon Wood, 1980      **Succeeding in Organic Chemistry** Joseph C. Sloop, 2010 This text is specifically designed to help introductory Organic Chemistry students Understand The fundamental concepts covered in undergraduate organic chemistry The purpose of this book is three fold To explode the misconceptions and misgivings that are prevalent regarding this vast subject provide additional insight for students on a number of concepts essential to mastery of organic chemistry and explore alternative learning strategies to assist the beginning organic chemistry student in applying a specialized problem solving technique which centers on structure function and a mechanistic approach Examples of key chemical transformations are dissected and analyzed to assist students in improving their problem solving skills Each chapter contains a number of additional problems And The solutions to those problems are provided at the end of each chapter      *Community and Junior College Journal*, 1974

**Introductory Chemistry** Charles H. Corwin, 2011 To help students learn chemical skills and concepts more effectively Introductory Chemistry Concepts and Critical Thinking Sixth Edition highlights the connection between key concepts and key problem solving skills through critical thinking Math and problem solving are covered early in the text Corwin builds your problem solving ability through innovative learning aids and technology formulated to meet your needs This revision retains all the strengths of the previous editions while adding emphasis on conceptual understanding and critical thinking

**Resources in Education**, 1990 **Elements of Chemistry** Robert S. Boikess, Kenneth Breslau, Edward Edelson, 1986

**American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography, 1978

*El-Hi Textbooks & Serials in Print, 2005*, 2005 **Catalog of Copyright Entries. Third Series** Library of Congress.

Copyright Office, 1971 *Mathematics and Science Education International Seminar 2021 (MASEIS 2021)* M. Lutfi

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**Introduction to General, Organic, and Biochemistry** Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career

**Mastering the BMAT** Christopher Nordstrom, George Rendel, Luke Baxter, 2016-09-19 This is the first BMAT theory and practice book on the market providing not only practice questions but breaking down the BMAT exam step by step The authors both leading specialists in BMAT training focus on each section in turn using many sample questions to carefully illustrate the theory rather than simply testing rote learning A concluding mock exam allows candidates to consolidate learning through self assessment with model answers to refer to at the end

**MCAT Exam Prep** Bill T Reese, 2024-05-13 What does it take to embark on the journey towards a career in medicine Dive into the world of aspiring

medical professionals with our comprehensive guide designed to equip you with the knowledge skills and strategies needed to conquer the Medical College Admission Test MCAT and pave the way for success in medical school We unravel the mysteries of the MCAT through a series of engaging chapters that delve into the core subjects tested on the exam From biology and biochemistry to physics and organic chemistry each chapter offers a deep exploration of essential concepts accompanied by practice questions and detailed explanations to reinforce your understanding But mastering the MCAT is not just about memorizing facts and formulas it s about honing your critical thinking analytical reasoning and problem solving abilities That s why our book goes beyond mere content review to provide valuable insights into effective study strategies test taking techniques and mental preparation tips to help you perform at your best on exam day Whether you re a pre med student embarking on your MCAT journey or a seasoned test taker seeking to improve your scores this book is your trusted companion every step of the way Join us as we empower you to embrace the challenges seize the opportunities and embark on a transformative journey towards realizing your dreams of a career in medicine Prepare to embark on an enriching and empowering voyage one that will not only shape your academic future but also ignite your passion for healing compassion and making a meaningful difference in the world Are you ready to rise to the challenge and unlock your potential for greatness The journey begins here

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