

AP Chemistry Chapter 4 Practice Exam

D

1. The Claus reactions, shown below, are used to generate elemental sulfur from hydrogen sulfide.

How much sulfur (in grams) is produced from 21.5 grams of O_2 ?

A) 97.0 g

B) 14.4 g

C) 21.5 g

D) 43.1 g

E) none of these

$$\begin{array}{c} 21.5 \text{ g } \text{O}_2 \left| \frac{1 \text{ mol } \text{O}_2}{32.00 \text{ g } \text{O}_2} \right| \frac{2 \text{ SO}_2}{3 \text{ O}_2} \left| \frac{3 \text{ S}}{\text{SO}_2} \right| \frac{32.06 \text{ g S}}{1 \text{ mol S}} = 43.1 \text{ g S} \end{array}$$

B

2. Iron is produced from its ore by the reactions:

How many moles of $\text{O}_2(g)$ are needed to produce 4.6 moles of $\text{Fe}(s)$?A) 2.3 mole O_2 B) 3.5 mole O_2 C) 4.6 mole O_2 D) 6.9 mole O_2 E) 13.8 mole O_2

$$\begin{array}{c} 4.6 \text{ mol Fe}(s) \left| \frac{3 \text{ CO}}{2 \text{ Fe}} \right| \frac{1 \text{ O}_2}{2 \text{ CO}} = 3.45 \text{ mol O}_2 \end{array}$$

B

3. Suppose the reaction
- $\text{Ca}_3(\text{PO}_4)_2 + 3\text{H}_2\text{SO}_4 \rightarrow 3\text{CaSO}_4 + 2\text{H}_3\text{PO}_4$
- is carried out starting with 153 g of
- $\text{Ca}_3(\text{PO}_4)_2$

and 76.8 g of H_2SO_4 . How much phosphoric acid will be produced?

A) 76.7 g

B) 51.1 g

C) 229.8 g

D) 115.1 g

E) 96.7 g

$$\begin{array}{c} 153 \text{ g } \text{Ca}_3(\text{PO}_4)_2 \left| \frac{1 \text{ mol } \text{Ca}_3(\text{PO}_4)_2}{286.17 \text{ g}} \right| \frac{2 \text{ H}_3\text{PO}_4}{1 \text{ Ca}_3(\text{PO}_4)_2} = \\ 76.8 \text{ g } \text{H}_2\text{SO}_4 \left| \frac{1 \text{ mol } \text{H}_2\text{SO}_4}{98.08 \text{ g}} \right| \frac{2 \text{ H}_3\text{PO}_4}{3 \text{ H}_2\text{SO}_4} = \end{array}$$

B

- 4.
- SO_2
- reacts with
- H_2S
- as follows:

When 7.50 g of H_2S reacts with 12.75 g of SO_2 , which statement applies?

A) 6.38 g of sulfur are formed.

B) 10.6 g of sulfur are formed.C) 0.0216 moles of H_2S remain.D) 1.13 g of H_2S remain.E) SO_2 is the limiting reagent.

$$\begin{array}{c} 7.50 \text{ g } \text{H}_2\text{S} \left| \frac{1 \text{ mol } \text{H}_2\text{S}}{34.08 \text{ g}} \right| \frac{3 \text{ S}}{2 \text{ H}_2\text{S}} \left| \frac{32 \text{ g S}}{1 \text{ mol S}} \right| = 10.89 \end{array}$$

$$\begin{array}{c} 12.75 \text{ g } \text{SO}_2 \left| \frac{1 \text{ mol } \text{SO}_2}{64 \text{ g}} \right| \frac{3 \text{ S}}{1 \text{ SO}_2} \left| \frac{32 \text{ g S}}{1 \text{ mol S}} \right| = 19.13 \end{array}$$

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Jianfeng Cai, Rongsheng Wang



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Cracking the AP Chemistry Exam, 2009 Edition Paul Foglino, 2009-01-01 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests **CliffsNotes AP Chemistry** Bobrow Test Preparation Services, 2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book **Developing and Validating Test Items** Thomas M.

Haladyna, Michael C. Rodriguez, 2013-07-18 Since test items are the building blocks of any test learning how to develop and validate test items has always been critical to the teaching learning process As they grow in importance and use testing programs increasingly supplement the use of selected response multiple choice items with constructed response formats This trend is expected to continue As a result a new item writing book is needed one that provides comprehensive coverage of both types of items and of the validity theory underlying them This book is an outgrowth of the author s previous book *Developing and Validating Multiple Choice Test Items* 3e Haladyna 2004 That book achieved distinction as the leading source of guidance on creating and validating selected response test items Like its predecessor the content of this new book is based on both an extensive review of the literature and on its author s long experience in the testing field It is very timely in this era of burgeoning testing programs especially when these items are delivered in a computer based environment Key features include Comprehensive and Flexible No other book so thoroughly covers the field of test item development and its various applications Focus on Validity Validity the most important consideration in testing is stressed throughout and is based on the Standards for Educational and Psychological Testing currently under revision by AERA APA and NCME Illustrative Examples The book presents various selected and constructed response formats and uses many examples to illustrate correct and incorrect ways of writing items Strategies for training item writers and developing large numbers of items using algorithms and other item generating methods are also presented Based on Theory and Research A comprehensive review and synthesis of existing research runs throughout the book and complements the expertise of its authors **The Science Teacher** , 2009

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Renewable Resources for Surface Coatings, Inks and Adhesives Rainer Höfer, 2022-11-11 Providing a detailed survey of renewable raw materials for paints inks and glues this book is ideal for researchers and practitioners working in the areas of green chemistry industrial chemistry and sustainability Beginning with a brief history of coatings and adhesives this book walks the reader through the chemistry properties sourcing and processing of a number of renewable raw materials including lipids natural resins proteins and carbohydrates Their use in a range of recent developments and concepts from material protection to decorative paints and coatings adhesives and sealants is highlighted providing the reader with a complete and modern foundation to the field

Protein Interactions Jianfeng Cai, Rongsheng Wang, 2012-03-16 Protein interactions which include interactions between proteins and other biomolecules are essential to all aspects of biological processes such as cell growth differentiation and apoptosis Therefore investigation and modulation of protein interactions are of significance as it not only reveals the mechanism governing cellular activity but also leads to potential agents for the treatment of various diseases The objective of this book is to highlight some of the latest approaches in the study of protein interactions including modulation of protein interactions development of analytical techniques etc Collectively they demonstrate the importance and the possibility for the further investigation and modulation of protein interactions as technology is evolving

Spectral Methods in Chemistry and Physics Bernard Shizgal, 2015-01-07 This book is a pedagogical presentation of the application of spectral and pseudospectral methods to kinetic theory and quantum mechanics There are additional applications to astrophysics engineering biology and many other fields The main objective of this book is to provide the basic concepts to enable the use of spectral and pseudospectral methods to solve problems in diverse fields of interest and to a wide audience While spectral methods are generally based on Fourier Series or Chebychev polynomials non classical polynomials and associated quadratures are used for many of the applications presented in the book Fourier series methods are summarized with a discussion of the resolution of the Gibbs phenomenon Classical and non

classical quadratures are used for the evaluation of integrals in reaction dynamics including nuclear fusion radial integrals in density functional theory in elastic scattering theory and other applications The subject matter includes the calculation of transport coefficients in gases and other gas dynamical problems based on spectral and pseudospectral solutions of the Boltzmann equation Radiative transfer in astrophysics and atmospheric science and applications to space physics are discussed The relaxation of initial non equilibrium distributions to equilibrium for several different systems is studied with the Boltzmann and Fokker Planck equations The eigenvalue spectra of the linear operators in the Boltzmann Fokker Planck and Schrödinger equations are studied with spectral and pseudospectral methods based on non classical orthogonal polynomials The numerical methods referred to as the Discrete Ordinate Method Differential Quadrature the Quadrature Discretization Method the Discrete Variable Representation the Lagrange Mesh Method and others are discussed and compared MATLAB codes are provided for most of the numerical results reported in the book see Link under Additional Information on the the right hand column

Pharmaceutical Residues in the Environment Jolanta Kumirska, 2020-11-18

Pharmaceuticals due to their pseudo persistence and biological activity as well as their extensive use in human and veterinary medicine are a class of environmental contaminants that is of emerging concern In contrast to some conventional pollutants they are continuously delivered at low levels which might give rise to toxicity even without high persistence rates These chemicals are designed to have a specific physiological mode of action and to resist frequently inactivation before exerting their intended therapeutic effect These features among others result in the bioaccumulation of pharmaceuticals which are responsible for toxic effects in aquatic and terrestrial ecosystems It is extremely important to know how to remove them from the environment and or how to implement procedures or treatments resulting in their biological inactivation Although great advances have been made in their detection in aquatic matrices there remains limited analytical methodologies available for the trace analysis of target and non target pharmaceuticals in matrices such as soils sediments or biota There are still many gaps in the data on their fate and behavior in the environment as well as on their threats to ecological and human health This book has included nine current research and three review articles in this field

Nanotechnology for Bioapplications Bong-Hyun Jun, 2021-03-29 This book documents the tremendous progress in the use of nanotechnology for a range of bioapplications with the aim of providing students researchers technicians and other professionals with an up to date overview of the field After a general introduction to the surface modifications of nanoparticles required for different biological applications and to the properties of the modified nanoparticles a series of chapters describe the state of the art in respect of different types of nanoparticle including silica nanoparticles fluorescent nanomaterials metal nanoparticles magnetic nanoparticles carbon based nanostructures and other novel nanomaterials Detailed information is supplied on methods of preparation chemical and physical properties and current and potential applications The closing chapters discuss lithography methods for the top down approach to nanoparticle synthesis and the

use of spectroscopic studies as a tool for the characterization of each nanoparticle Future prospects and challenges for the development of further nanomaterials with bioapplications are also covered

Starch Based Nanomaterials for Food Packaging Gulzar Ahmad Nayik,Aamir Hussain Dar,2023-11-07 Starch Based Nanomaterials for Food Packaging Perspectives and Future Prospectus presents the properties and sources of starch based nanomaterials new perspectives safety aspects applications and future trends The book s chapters cover nanostructured materials polysaccharide based bionanocomposites starch based nanofibers starch food packaging applications nano gold imprinted starch bio nanocomposites cereal starch based nanoparticles and edible packaging reinforced with starch based nanomaterials This is a complete resource to food industrialists who deal directly with food packaging and fruit and vegetable preservation Contains updated research behind the utilization of starch based nanomaterials in food packaging Provides clear and comprehensive information on edible packaging based nanomaterials Presents deep insights into perspectives safety aspects and future trends of starch based nanomaterials

Russell, Hugo and Ayliffe's Principles and Practice of Disinfection, Preservation and Sterilization Adam P. Fraiese,Jean-Yves Maillard,Syed Sattar,2013-02-18 The new edition of this established and highly respected text is THE definitive reference in its field It details methods for the elimination or prevention control of microbial growth and features New chapters on bioterrorism and community healthcare New chapters on microbicide regulations in the EU USA and Canada Latest material on microbial resistance to microbicides Updated material on new and emerging technologies focusing on special problems in hospitals dentistry and pharmaceutical practice Practical advice on problems of disinfection and antiseptics in healthcare A systematic review of sterilization methods with uses and advantages outlined for each Evaluation of disinfectants and their mechanisms of action with respect to current regulations The differences between European and North American regulations are highlighted throughout making this a truly global work ideal for worldwide healthcare professionals working in infectious diseases and infection control

The Chemistry of Biofilms and Their Inhibitors Sergio F. Sousa,Manuel Simões,Nenad Filipović,2020-12-11 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Environmental and Construction Engineering: Reality and the Future Sergey Vasil'yevich Klyuev,Alexander Vasil'yevich Klyuev,2021-06-06 This book gathers the latest advances innovations and applications in the field of construction engineering as presented by researchers and engineers at the International Conference Environmental and Construction Engineering Reality and the Future held in Belgorod Russia on May 18 19 2021 It covers highly diverse topics including industrial and

civil construction building materials environmental engineering and sustainability machines aggregates and processes in construction The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations *Alberta Oil Sands*, 2012-11-07 At 170 billion barrels Canada's Oil Sands are the third largest reserves of developable oil in the world The Oil Sands now produce about 1.6 million barrels per day with production expected to double by 2025 to about 3.7 million barrels per day The Athabasca Oil Sands Region AOSR in northeastern Alberta is the largest of the three oil sands deposits Bitumen in the oil sands is recovered through one of two primary methods mining and drilling About 20 per cent of the reserves are close to the surface and can be mined using large shovels and trucks Of concern are the effects of the industrial development on the environment Both human made and natural sources emit oxides of sulphur and nitrogen trace elements and persistent organic compounds Of additional concern are ground level ozone and greenhouse gases Because of the requirement on operators to comply with the air quality regulatory policies and to address public concerns the not for profit multi stakeholder Wood Buffalo Environmental Association WBEA has since 1997 been closely monitoring air quality in AOSR In 2008 WBEA assembled a distinguished group of international scientists who have been conducting measurements and practical research on various aspects of air emissions and their potential effects on terrestrial receptors This book is a synthesis of the concepts and results of those on going studies It contains 19 chapters ranging from a global perspective of energy production measurement methodologies and behavior of various air pollutants during fossil fuel production in a boreal forest ecosystem towards designing and deploying a multi disciplinary proactive and long term environmental monitoring system that will also meet regulatory expectations Covers measurement of emissions from very large industrial sources in a region with huge international media profile Validation of measurement technologies can be applied globally The new approaches to ecological monitoring described can be applied in other forested regions **Radiation in Bioanalysis**

Alice S. Pereira, Pedro Tavares, Paulo Limão-Vieira, 2019-09-21 This book describes the state of the art across the broad range of spectroscopic techniques used in the study of biological systems It reviews some of the latest advances achieved in the application of these techniques in the analysis and characterization of small and large biological compounds covering topics such as VUV UV and UV visible spectroscopies fluorescence spectroscopy IR and Raman techniques dynamic light scattering DLS circular dichroism CD SR CD pulsed electron paramagnetic resonance techniques Mossbauer spectroscopy nuclear magnetic resonance X ray methods and electron and ion impact spectroscopies The second part of the book focuses on modelling methods and illustrates how these tools have been used and integrated with other experimental and theoretical techniques including also electron transfer processes and fast kinetics methods The book will benefit students researchers and professionals working with these techniques to understand the fundamental mechanisms of biological systems

Technologies for Converting Biomass to Useful Energy Erik Dahlquist, 2013-04-16 Officially the use of biomass for

energy meets only 10–13% of the total global energy demand of 140 000 TWh per year. Still thirty years ago the official figure was zero as only traded biomass was included. While the actual production of biomass is in the range of 270 000 TWh per year, most of this is not used for energy purposes and mostly it is not used very efficiently. Therefore there is a need for new methods for converting biomass into refined products like chemicals, fuels, wood and paper products, heat, cooling and electric power. Obviously some biomass is also used as food, our primary life necessity. The different types of conversion methods covered in this volume are biogas production, bio-ethanol production, torrefaction, pyrolysis, high temperature gasification and combustion. This book covers the suitability of different methods for conversion of different types of biomass. Different versions of the conversion methods are presented, both existing methods and those being developed for the future. System optimization using modeling methods and simulation are analyzed to determine advantages and disadvantages of different solutions. Many international experts have contributed to provide an up-to-date view of the situation all over the world. These global perspectives and the inclusion of so much expertise of distinguished international researchers and professionals make this book unique. This book will prove useful and inspiring to professionals, engineers, researchers and students as well as to those working for different authorities and organizations.

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