

CP Chemistry Unit 1 Test Review KEY

Problems and questions:

- Round each of the following numbers to 3 significant figures:
a) .09882 **.0988** b) 123,459 **123,000** c) 102.45 **102** d) 2.301×10^{-2} **2.30×10^{-2}**
- Calculate, use sig figs: $(12.22 \times 14.02 \times 120.1 \times .555) / 10.00 =$ **1140**
- A sample of metal having a mass of 12.122 g is added to a graduated cylinder containing 35.2 mL of water. The water level rises to 38.4 mL. Calculate the density, use correct significant figures.
$$d = \frac{12.122}{3.2} = 3.8 \text{ g/mL}$$
- Calculate the % error for an experiment where the student measured 3.45 g and the actual value was 3.00 g?
$$\% \text{ error} = \frac{(3.45 \text{ g} - 3.00 \text{ g})}{(3.00 \text{ g})} \times 100 = 15.0\%$$
- Write the symbol for the following ions: Mg losing 2 e⁻, Al losing 3 e⁻, N gaining 3 e⁻, S gaining 2 e⁻
Mg²⁺, Al³⁺, N³⁻, S²⁻
- a) 2 b) 3 c) 12 d) 5
- List three points of Dalton's atomic theory.
A. Elements made of tiny particles, called atoms.
B. Atoms of a given element are identical; the atoms of different elements are different.
C. In chemical reactions, atoms are combined, separated, or rearranged. Atoms cannot be subdivided, created, or destroyed.
D. Atoms combine with atoms, in small whole numbers, to form compounds.
- Describe Thompson's experiment with the cathode ray tube, what did he discover?
Cathode ray tube consists of a cathode (negative) and anode (positive) side. The "ray" could be bent with magnetic or electric fields. The "ray" bent toward a positive EM field and away from a negative EM field. Discovered electron and charge to mass ratio of electron.
- Describe Millikan's Oil Drop experiment. What exactly did he determine?
He suspended a micro oil droplet in an electric field and was able to determine the actual charge of an electron to be $-1.6 \times 10^{-19} \text{ C}$. Also, determined the mass of an electron.
- Explain Rutherford's Gold Foil experiment. What were three observations and three conclusions?
He fired alpha particles at gold foil and observed: 1) most went straight through, 2) small number showed a slight deflection, 3) very few bounced straight back. He concluded: 1) mass of atom is in the nucleus, 2) nucleus is positively charged, 3) atom mostly empty space.
- What is an isotope? **Atoms of the same element that differ by # of electrons.**
- Write the symbol of the most abundant copper isotope if the average atomic mass is 63.55? **$^{64}_{29}\text{Cu}$**
- Write the nuclear symbol for an isotope with Z=40, and 45 neutrons? **$^{85}_{40}\text{Zr}$**
- Consider the diagram and match the letters with the appropriate particle
A= electron, B= neutron, C= proton
- Place the forms of hydrogen (H, H⁺, H⁻, H₂) in the table.



Atom	Cation	Anion	Molecule
H	H⁺	H⁻	H₂

Modeling Chemistry Unit 1 Review Answers Key

Bastian E. Rapp



Modeling Chemistry Unit 1 Review Answers Key:

Chemistry in the Community. American Chemical Society, 2002 This volume has relevance to a wide number of courses giving a hands on introduction to chemistry in relation to community issues rather than around specific chemical concepts **Shreir's Corrosion** , 2009-02-27 This four volume reference work builds upon the success of past editions of Elsevier's Corrosion title by Shreir Jarman and Burstein covering the range of innovations and applications that have emerged in the years since its publication Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester Shreir's Corrosion meets the research and productivity needs of engineers consultants and researchers alike Incorporates coverage of all aspects of the corrosion phenomenon from the science behind corrosion of metallic and non metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting edge topics such as medical applications metal matrix composites and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy

Mesoscale Modeling in Chemical Engineering Part I , 2015-11-26 Focusing Mesoscales of Multiscale Problems in Chemical Engineering a volume in the Advances in Chemical Engineering series provides readers with the personal views of recognized authorities who present assessments of the state of the art in the field and help readers develop an understanding of its further evolution Subjects covered in the book are not limited to the classical chemical engineering disciplines Contributions connecting chemical engineering to related scientific fields either providing a fundamental basis or introducing new concepts and tools are encouraged This volume aims to create a balance between well developed areas such as process industry transformation of materials energy and environmental issues and areas where applications of chemical engineering are more recent or emerging Contains reviews by leading authorities in their respective areas Provides up to date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors as well as academic industrial research institute perspectives Provides discussions on the connections between computation and experimental methods **Computational Modeling of Polymers** Jozef Bicerano, 1992-03-17 **Microfluidics** Bastian E. Rapp, 2022-10-07 Microfluidics Modeling Mechanics and Mathematics Second Edition provides a practical lab based approach to nano and microfluidics including a wealth of practical techniques protocols and experiments ready to be put into practice in both research and industrial settings This practical approach is ideally suited to researchers and R D staff in industry Additionally the interdisciplinary approach to the science of nano and microfluidics enables readers from a range of different academic disciplines to broaden their understanding Alongside traditional fluid transport topics the book contains a wealth of coverage of materials and manufacturing techniques chemical modification surface functionalization biochemical analysis and the biosensors involved This fully updated new edition also includes new sections on viscous flows and centrifugal microfluidics expanding the types of platforms covered to include centrifugal capillary and electro kinetic

platforms Provides a practical guide to the successful design and implementation of nano and microfluidic processes e g biosensing and equipment e g biosensors such as diabetes blood glucose sensors Provides techniques experiments and protocols that are ready to be put to use in the lab or in an academic or industry setting Presents a collection of 3D CAD and image files on a companion website **Resources in Education** ,1984 **Energy Research Abstracts** ,1987

Functional Proteomics and Nanotechnology-Based Microarrays Josh LaBaer,Claudio Nicolini,2019-05-08 This volume introduces in a coherent and comprehensive fashion the Pan Stanford Series on Nanobiotechnology by defining and reviewing the major sectors of Nanobiotechnology and Nanobiosciences with respect to the most recent developments Nanobiotechnology indeed appears capable of yielding a scientific and industrial revolution along the routes correctly foreseen by the numerous programs on Nanotechnology launched over the last decade by numerous Councils and Governments worldwide beginning in the late 1995 by the Science and Technology Council in Italy and by the President Clinton in USA and ending this year with President Putin in Russian Federation *ERDA Energy Research Abstracts* ,1983

Commerce Business Daily ,1998-10 Scientific and Technical Aerospace Reports ,1991 **Petroleum Abstracts** ,1992 Computerworld ,1999-04-05 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1995-07 EPA Publications Bibliography United States. Environmental Protection Agency,1995 *Cumulated Index Medicus* ,1991 **Holt Chemistry** Ralph Thomas Myers,2004 **Recent Awards in Engineering** ,1983

Treatise on Process Metallurgy, Volume 2B Seshadri Seetharaman,Alexander McLean,Roderick Guthrie,Sridhar Seetharaman,H. Y. Sohn,2025-07-01 Treatise on Process Metallurgy Volume 2B Unit Processes presents various unit processes with an emphasis on mineral processing hydrometallurgy and electrochemical materials and energy processes The book highlights the roles of these processes in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels reflecting the shift toward green and electrochemical processes Basic knowledge of thermodynamics and kinetics is provided for better understanding of metallurgical processes The first section of the book covers mineral processing providing insight on comminution separation processes dewatering and tailings disposal The second section focuses on hydrometallurgy discussing leaching separation purification metal recovery and battery materials and the book concludes with a section studying electrochemical material and energy featuring coverage of molten oxide electrolysis molten carbonate fuel cells various sensors and ionic liquids Each section also includes various case studies demonstrating the use of the concepts in real world settings Covers mineral processing electrochemical materials and hydrometallurgy and their roles in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels Provides basic

knowledge on thermodynamics and kinetics needed for understanding the principles of metallurgical processes Includes a section on electrochemical materials and energy processes covering molten salts electrolysis fuel cells and nuclear molten salt reactors Features insight into the entire process chain unit processes that are generally overlooked and unit processes that combine hydro electro and pyro processes in an optimal way **Environmental Health Perspectives** ,1993

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