

Name: _____
Hour: _____ Date: _____

Chemistry: Stoichiometry – Problem Sheet 1

Directions: Solve each of the following problems. Show your work, including proper units, to earn full credit.

1. Silver and nitric acid react according to the following balanced equation:



- A. How many moles of silver are needed to react with 40 moles of nitric acid?
- B. From the amount of nitric acid given in Part A, how many moles of silver nitrate will be produced?
- C. From the amount of nitric acid given in Part A, how many moles of water will be produced?
- D. From the amount of nitric acid given in Part A, how many moles of nitrogen monoxide will be made?

2. Given the balanced equation: $2 \text{ N}_2\text{H}_4\text{(l)} + \text{ N}_2\text{O}_4\text{(l)} \rightarrow 3 \text{ N}_2\text{(g)} + 4 \text{ H}_2\text{O(g)}$

- A. How many moles of dinitrogen tetrahydride are required to produce 57 moles of nitrogen?
- B. How many moles of dinitrogen tetroxide are required to produce 57 moles of nitrogen?
- C. How many moles of water are produced when 57 moles of nitrogen are made?

3. Calculate the mass of aluminum oxide produced when 3.75 moles of aluminum burn in oxygen.

Answers:

1A. 30 mol Ag
1B. 30 mol AgNO₃

1C. 20 mol H₂O
1D. 10 mol NO

2A. 38 mol N₂H₄
2B. 19 mol N₂O₄

2C. 76 mol H₂O
3. 191 g Al₂O₃

Work For Section 3 Stoichiometry

E. W. Hoyt, D. L. Zimmerman



Work For Section 3 Stoichiometry:

Proceedings of the Joint Symposium on Stationary Combustion NO_x Control ,1981 **Carbon in Earth's Interior** Craig E. Manning,Jung-Fu Lin,Wendy L. Mao,2020-04-03 Carbon in Earth's fluid envelopes the atmosphere biosphere and hydrosphere plays a fundamental role in our planet's climate system and a central role in biology the environment and the economy of earth system The source and original quantity of carbon in our planet is uncertain as are the identities and relative importance of early chemical processes associated with planetary differentiation Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's surface and its interior including diamonds carbon rich mantle derived magmas carbonate rocks in subduction zones and springs carrying deeply sourced carbon bearing gases Thus there is little doubt that a substantial amount of carbon resides in our planet's interior Yet while we know it must be present carbon's forms transformations and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped Volume highlights include Reviews key general topics such as carbonate minerals the deep carbon cycle and carbon in magmas or fluids Describes new results at the frontiers of the field with presenting results on carbon in minerals melts and fluids at extreme conditions of planetary interiors Brings together emerging insights into carbon's forms transformations and movements through study of the dynamics structure stability and reactivity of carbon based natural materials Reviews emerging new insights into the properties of allied substances that carry carbon into the rates of chemical and physical transformations and into the complex interactions between moving fluids magmas and rocks to the interiors of Earth and other planets Spans the various chemical redox states of carbon from reduced hydrocarbons to zero valent diamond and graphite to oxidized CO₂ and carbonates Captures and synthesizes the exciting results of recent focused efforts in an emerging scientific discipline Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science Compiles the range of methods that can be tapped tap from the deep carbon community which includes experimentalists first principles theorists thermodynamic modelers and geodynamicists Represents a reference point for future deep carbon science research Carbon in Planetary Interiors will be a valuable resource for researchers and students who study the Earth's interior The topics of this volume are interdisciplinary and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences such as mineral physics petrology geochemistry experimentalists first principles theorists thermodynamics material science chemistry geophysics and geodynamics **Cehmistry Textbook for College and University USA** Ibrahim Sikder,2023-06-04 Cehmistry Textbook USA **Energy Research Abstracts** ,1992-04 **Studies of High-Temperature Superconductors - Advances in Research and Applications** Anant Narlikar,2001 Studies of High Temperature Superconductors Volume 36 The BSCCO System II *Sol-Gel Processing for Conventional and Alternative Energy* Mario Aparicio,Andrei Jitianu,Lisa C. Klein,2012-02-04 Sol Gel Processing for Conventional and Alternative Energy is a comprehensive source of information on

the use of sol gel processing in materials in energy systems conversion storage and generation The volume editors include numerous applications primarily in nuclear fuel processing electrolytes for fuel cells and dye sensitized solar cells DSSC In addition to examining contemporary processing properties and industrial applications Sol Gel Processing for Conventional and Alternative Energy identifies materials challenges presented by conventional and alternative energy generation that require new materials and innovative processing Each chapter is written by an internationally respected researcher The book provides a state of the art treatment of different aspects of materials for energy production with a focus on processing and covers related topics such as carbon sequestration clean energy and biofuels

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Timetable University of Illinois at Urbana-Champaign, 1914

General Electric Atomic Power, 1962

Basic Concepts of Chemistry Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance

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