

- 2) Light the Bunsen burner and place it under the beaker. Adjust the burner so the hottest part of the flame is touching the bottom of the beaker.
- 3) Carefully heat and stir the mixture in the beaker using your stir rod. The solution should be hot, but not boiling. After all the crystals have dissolved, remove the beaker from the heat using your hot pad or rubber-coated tongs.
- 4) Add 2.00g of iron filings slowly to the hot copper (II) sulfate solution while stirring. Record observations in your data table.
- 5) Allow the beaker to cool for 10-15 minutes.
- 6) Pour off (decant) the solution into a different beaker. Pouring the solution down a stirring rod is recommended (as shown in the image shown to the right). Make sure not to disturb the copper in the beaker.
- 10) Add a small amount of water (10-15mL) to the copper & stir.
- 11) Let the copper settle and decant again.
- 12) Dry the copper as your teacher directs and determine its mass. Record the mass in the data table provided.



Data Table:

Mass of clean, dry 250mL beaker		2
Observations after adding iron filings		
	Circle the observations that support the chemical reaction.	
Mass of beaker with dried copper residue		2
Mass of copper residue		2

Analysis Questions:

- 1) Which reactant is limiting? What observations support this? Use the balanced chemical equation for the reaction that occurred in the lab and stoichiometric calculations to support your answer.
- 2) Why was the copper washed with water in step 10 of the procedure?
- 3) Why didn't the water added to the copper (II) sulfate need to be measured exactly?
- 4) What is the formula for the iron-containing compound that is formed when copper (II) sulfate and iron react? Support your answer.

Cleaning Up:

- 1) Place the copper in the waste container provided by your teacher.
- 2) Place the remaining solution in the labeled container.
- 3) Clean up all materials and return them to the proper locations.
- 4) Wash your hands thoroughly before leaving the lab.

Conclusions: Provide a summary of the lab and discuss a final confirmation or rejection of your hypothesis, citing your observations.

Experiment 37 Stoichiometry

John Kenkel



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The Translational Apparatus K.H. Nierhaus, F. Franceschi, A.R. Subramanian, Volker Alfred Erdmann, Brigitte Wittmann-Liebold, 2012-12-06 Proceedings of an international conference held in Berlin Germany October 31 November 5 1992

General, Organic, and Biochemistry Lab Manual Sara Selfe, 2006-01-12 Offers a choice of classic chemistry experiments and innovative ones All of them place special emphasis on the biological implications of chemical concepts Available for custom publishing at <http://custompub.whfreeman.com>

Ceramic Materials for Energy Applications VI, Volume 37, Issue 6 Hua-Tay Lin, Josef Matyas, Yutai Katoh, Alberto Vomiero, 2017-01-04 A collection of 15 papers from The American Ceramic Society's 40th International Conference on Advanced Ceramics and Composites held in Daytona Beach Florida January 24-29 2016 This issue includes papers presented in Symposia 6 Advanced Materials and Technologies for Energy Generation Conversion and Rechargeable Energy Storage Symposium 13 Advanced Ceramics and Composites for Sustainable Nuclear Energy and Fusion Energy and Focused Session 2 Advanced Ceramic Materials and Processing for Photonics and Energy

Chemistry and Biology of Pteridines and Folates June E. Ayling, M. Gopal Nair, Charles M. Baugh, 2012-12-06 The pteridines in their multitude of forms fulfill many roles in nature ranging from pigments to cofactors for numerous redox and one carbon transfer reactions This extraordinary diversity of function is unified by the unique chemistry of the pteridine heterocycle The International Symposium on the Chemistry and Biology of Pteridines and Folates is a forum for presenting recent and exciting advances in this expanding field In of ideas results that has often stimulated bringing together various disciplines a synergy fresh approaches to major problems The Tenth International Symposium held at Orange Beach Alabama March 21-23 1993 proved no exception by providing new insights into folate enzymology tetrahydrobiopterin and molybdopterin biosynthesis and function enzyme synthesis and regulation along with novel synthetic strategies for producing compounds that will expedite further study The many outstanding scientific contributions found in the following chapters which represent the work presented at the Symposium are a reflection of the significant advances made since the Ninth International Symposium held in Zurich in 1989 Since the 7th International Symposium in St Andrews Scotland a tradition has evolved of honoring scientists who have made outstanding contributions to pteridine research with a Gowland Hopkins medal and lectureship Sir Frederick Gowland Hopkins initiated the first investigation of what later proved to be pteridines in his studies of the yellow and white colors of butterflies

Comprehensive Chiroptical Spectroscopy, Volume 2 Nina Berova, Prasad L. Polavarapu, Koji Nakanishi, Robert W. Woody, 2012-03-27 This book provides an introduction to the important methods of chiroptical spectroscopy in general and circular dichroism CD in particular which are increasingly important in all areas of chemistry biochemistry and structural biology The book can be used as a text for undergraduate and graduate students and as a reference for researchers in academia and industry Experimental methods and instrumentation are described with topics ranging from the most widely used methods electronic and vibrational CD to frontier areas such as

nonlinear spectroscopy and photoelectron CD as well as the theory of chiroptical methods and techniques for simulating chiroptical properties Applications of chiroptical spectroscopy to problems in organic stereochemistry inorganic stereochemistry and biochemistry and structural biology are also discussed and each chapter is written by one or more leading authorities with extensive experience in the field

37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 2001

Microarray Innovations Gary Hardiman, 2009-04-02 In recent years high density DNA microarrays have revolutionized biomedical research and drug discovery efforts by the pharmaceutical industry Their efficacy in identifying and prioritizing drug targets based on their ability to confirm a large number of gene expression measurements in parallel has become a key element in drug discovery Microarr

Proton Exchange Membrane Fuel Cells 9 T. Fuller, 2009-09 This issue of ECS Transactions is devoted to all aspects of research development and engineering of proton exchange membrane PEM fuel cells and attacks as well as low temperature direct fuel cells The intention of the symposium is to bring together the international community working on the subject and to enable effective interactions between the research and engineering communities This issue is sold as a two part set

Marine & Freshwater Research, 2014

Field-scale Experiments in Underground Gasification of Coal at Gorgas, Ala James Lowry Elder, 1957

Solitons And Polarons In Conducting Polymers Lu Yu, 1988-08-01 Polyacetylene CH_x is the simplest conjugated polymer Pristine polyacetylene is a good insulator whereas its highly doped version exhibits metal like electrical conductivity This book gives a detailed introduction to this rapidly developing field is given along with a collection of original papers The main purpose is to help chemists and physicists grasp the main ideas and most important facts an expert may also find it useful as a reference volume

Sustainable Green Chemistry Mark Anthony Benvenuto, 2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation

The Journal of Biological Chemistry, 1966 Vols 3 140 include the society's Proceedings 1907 41

The Chemistry of Oil and Petroleum Products Merv Fingas, 2022-06-06 This book is devoted to the chemistry of oil and petroleum products and covers the broad range of topics from heavy fuel oils crude oils and diluted bitumen to today's research on asphaltenes Recent methods are summarized and the large new groups of chemicals found in oils are identified as well as described The work points the way for a more complete understanding of the composition of petroleum Highlights include An update on oil fingerprinting New data using Fourier transform mass spectrometry forensic tools for

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Genetic Response to Metals Sarkar,1995-04-19 Based on the First International Symposium on Metals and Genetics held recently at the Hospital for Sick Children in Toronto Ontario Canada The only book of its kind to focus on the effects of metals on DNA Provides up to date information on new developments in the field and their wide ranging implications Discusses the molecular mechanisms of metal induced mutagenicity and carcinogenicity The Role of Complement in Health and Disease Maciej Cedzyński,Nicole M. Thielens,Tom Eirik Mollnes,Thomas Vorup-Jensen,2019-11-18

Ocean Biogeochemistry Michael J.R. Fasham,2003-04-08 Oceans account for 50% of the anthropogenic CO₂ released into the atmosphere During the past 15 years an international programme the Joint Global Ocean Flux Study JGOFS has been studying the ocean carbon cycle to quantify and model the biological and physical processes whereby CO₂ is pumped from the ocean's surface to the depths of the ocean where it can remain for hundreds of years This project is one of the largest multi disciplinary studies of the oceans ever carried out and this book synthesises the results It covers all aspects of the topic ranging from air sea exchange with CO₂ the role of physical mixing the uptake of CO₂ by marine algae the fluxes of carbon and nitrogen through the marine food chain to the subsequent export of carbon to the depths of the ocean Special emphasis is laid on predicting future climatic change *Combustion for Power Generation and Transportation* Avinash Kumar

Agarwal,Santanu De,Ashok Pandey,Akhilendra Pratap Singh,2017-01-20 This research monograph presents both fundamental science and applied innovations on several key and emerging technologies involving fossil and alternate fuel utilization in power and transport sectors from renowned experts in the field Some of the topics covered include autoignition in laminar and turbulent nonpremixed flames Langevin simulation of turbulent combustion lean blowout LBO prediction through symbolic time series analysis lasers and optical diagnostics for next generation IC engine development exergy destruction study on small DI diesel engine and gasoline direct injection The book includes a chapter on carbon sequestration and optimization of enhanced oil and gas recovery The contents of this book will be useful to researchers and professionals working on all aspects on combustion *Analytical Chemistry for Technicians* John Kenkel,2002-10-29 Surpassing its

bestselling predecessors this thoroughly updated third edition is designed to be a powerful training tool for entry level chemistry technicians Analytical Chemistry for Technicians Third Edition explains analytical chemistry and instrumental analysis principles and how to apply them in the real world A unique feature of this edition is that it brings the workplace of the chemical technician into the classroom With over 50 workplace scene sidebars it offers stories and photographs of technicians and chemists working with the equipment or performing the techniques discussed in the text It includes a supplemental CD that enhances training activities The author incorporates knowledge gained from a number of American Chemical Society and PITTCON short courses and from personal visits to several laboratories at major chemical plants where he determined firsthand what is important in the modern analytical laboratory The book includes more than sixty experiments specifically relevant to the laboratory technician along with a Questions and Problems section in each chapter Analytical Chemistry for Technicians Third Edition continues to offer the nuts and bolts of analytical chemistry while focusing on the practical aspects of training

New Perspectives on Nitrogen Cycling in the Temperate and Tropical Americas Alan R. Townsend, 2012-12-06 Inputs of nitrogen to terrestrial and aquatic ecosystems have increased several fold over the last one hundred and fifty years with the steepest increases during the last four decades The expansion of fertilizer manufacture and use the increase in fossil fuel combustion the intensification of animal husbandry and widespread cultivation of N₂ fixing crops have all contributed to the dramatic increase in N inputs The increase has been most rapid in Northern Hemisphere NH temperate ecosystems but presently subtropical and tropical regions of Asia are also experiencing an explosive increase in N inputs to terrestrial ecosystems W Chameides pers comm Galloway et al 1996 Projected increases in N deposition for these tropical and subtropical regions with a high natural background of N inputs exceed increases projected for temperate and arctic regions Cleveland et al submitted Galloway et al 1994 Holland Lamarque 1997a Compared to biological N fixation N deposition is becoming a proportionately greater source of N to terrestrial and aquatic ecosystems worldwide Vitousek et al 1997 6 The nitrogen contained in the atmosphere as N_{3.9} 10 Tg Tg 2.12 10 g is the largest reservoir of N in the Earth system Warneck 1988 However this paper focuses on the nitrogen emissions and deposition that have been transformed from N₂ into reactive forms that are biologically available g Vitousek et al 1997

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