

Name _____

Section _____

Experiment 10

Advance Study Assignment: Analysis of an Aluminum-Zinc Alloy

1. On the following page, construct a graph of N_{H_2} vs. % Al. To do this, refer to Equation 11 and the discussion preceding it. Note that a plot of N_{H_2} vs. % Al should be a straight line (why?). To fix the position of a straight line, it is necessary to locate only two points. The most obvious way to do this is to find N_{H_2} when % Al = 0 and when % Al = 100. If you wish you may calculate some intermediate points (for example, N_{H_2} when % Al = 50, or 20, or 80); all these points should lie on the same straight line. To use a spreadsheet, set up Equation 11 for different Al percentages. Graph N_{H_2} vs. % Al.
2. A student obtained the following data in this experiment. Fill in the blanks in the data and make the indicated calculations:

Mass of gelatin capsule	0.1134 g	Ambient temperature, t	23°C
Mass of capsule plus alloy sample	0.3212 g	Ambient temperature, T	296 K
Mass of alloy sample, m	0.2084 g	Atmospheric pressure	732 mm Hg
Mass of empty beaker	154.3 g	Vapor pressure of H_2O at t (Appendix I)	21.1 mm Hg
Mass of beaker plus displaced water	401.6 g		$732 - 21.1 = 710.9 \text{ mm Hg}$
Mass of displaced water	247.3 g	Pressure of dry H_2 , P_{H_2} (Eq. 7)	710.7 mm Hg
Volume of displaced water (density = 1.00 g/mL)	247.3 mL	Pressure of dry H_2	0.9354 atm
Volume, V , of H_2 = Volume of displaced water	247.3 mL		0.2473 L

Find the number of moles of H_2 evolved, n_{H_2} (Eq. 5; V in liters, P_{H_2} in atm, T in K, $R = 0.0821$ liter-atm/mole K).

$$0.935 \times 0.2473 \times 296 = 0.0095 \text{ moles } H_2$$

Find, N_{H_2} , the number of moles of H_2 per gram of sample (n_{H_2}/m).

$$\frac{0.0095}{0.2084} = 0.0456 \text{ moles } H_2/g$$

Find the % Al in the sample from the graph prepared for Problem 1.

Find the % Al in the sample by using Equation 11.

_____ % Al

_____ % Al006C

Experiment Advance Study Assignment

RJ Shavelson



Experiment Advance Study Assignment:

Experimental Program for Opportunities in Advanced Study and Research in Education National Institute of Education (U.S.),1978 Physics Laboratory Experiments Jerry D. Wilson,1986 *Advances in Experimental Political Science* James N. Druckman,Donald P. Green,2021-04-01 Experimental political science has changed In two short decades it evolved from an emergent method to an accepted method to a primary method The challenge now is to ensure that experimentalists design sound studies and implement them in ways that illuminate cause and effect Ethical boundaries must also be respected results interpreted in a transparent manner and data and research materials must be shared to ensure others can build on what has been learned This book explores the application of new designs the introduction of novel data sources measurement approaches and statistical methods the use of experiments in more substantive domains and discipline wide discussions about the robustness generalizability and ethics of experiments in political science By exploring these novel opportunities while also highlighting the concomitant challenges this volume enables scholars and practitioners to conduct high quality experiments that will make key contributions to knowledge **Photoprocesses in Transition Metal**

Complexes, Biosystems and Other Molecules. Experiment and Theory Elise Kochanski,1992 The main emphasis in this book is on the photoprocesses of transition metal complexes and biosystems but not to the exclusion of other photoprocesses The book will thus be useful to a wide range of researchers Beginning with a basic introduction to photophysics quantum chemistry and the spectroscopic techniques used for the study of organometallic intermediates and biliproteins the book goes on to discuss the photochemistry of organometallics special attention being paid to the photochemistry of metalbonded carbonyls and polynuclear systems in supramolecular photochemistry After moving to a discussion of large systems the book then developes some aspects of the photophysics of biosystems before closing with a discussion of artificial photosynthetic model systems **Electronic States of Inorganic Compounds: New Experimental Techniques** Peter R. Day,2012-12-06

In the last few years a surprisingly large number of new experimental techniques have been devised to probe often with great subtlety into the electronic structures of inorganic substances Thus in favourable cases one now has the opportunity of locating and assigning electronically excited states over a 1 vast energy range stretching from tens of cm above the ground 1 6 state up to some 10 cm The techniques are extremely dis parate in background involving among others linearly and circularly polarised electromagnetic radiation electron kinetic energy analysis and neutron scattering Furthermore practition ers of many of the techniques may not be aware of how the information which they are obtaining overlaps and complements that obtained by other techniques The time therefore seemed ripe to bring together a group of experts to survey for an audience of inorganic chemists the basic theories and experim ental procedures relevant to the different techniques and the relations between them In pursuing this aim we were fortunate in having the very generous financial backing of N A T O through their Advanced Study Institutes programme and the present volume records the substance of lectures given at the

Institute which took place at the Inorganic Chemistry Laboratory and St John s College Oxford from 8 18 September 1974

Effective Study Procedures in Junior College and Lower Division Courses Rufus Bernhard von Kleinsmid, Frank Charles Touton, 1929

Advances in Experimental Social Psychology Mark P. Zanna, James M. Olson, 2010-08-27 Advances in Experimental Social Psychology continues to be one of the most sought after and most often cited series in this field Containing contributions of major empirical and theoretical interest this series represents the best and the brightest in new research theory and practice in social psychology This serial is part of the Social Sciences package on ScienceDirect Visit info.sciencedirect.com for more information Advances in Experimental Social Psychology is available online on ScienceDirect full text online of volume 32 onward Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important complement to primary research Digital delivery ensures users reliable 24 hour access to the latest peer reviewed content The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier s extensive researcher network For more information about the Elsevier Book Series on ScienceDirect Program please visit info.sciencedirect.com/bookseries One of the most sought after and most often cited series in this field Contains contributions of major empirical and theoretical interest This series represents the best and the brightest in new research theory and practice in social psychology

A Laboratory Manual of General Chemistry for Use in Colleges William Crowell Bray, Wendell Mitchell Latimer, 1921

Announcer, 2004

Design of Experiments and Advanced Statistical Techniques in Clinical Research Basavarajaiah D. M., Bhamidipati Narasimha Murthy, 2020-11-05 Recent Statistical techniques are one of the basal evidence for clinical research a pivotal in handling new clinical research and in evaluating and applying prior research This book explores various choices of statistical tools and mechanisms analyses of the associations among different clinical attributes It uses advanced statistical methods to describe real clinical data sets when the clinical processes being examined are still in the process This book also discusses distinct methods for building predictive and probability distribution models in clinical situations and ways to assess the stability of these models and other quantitative conclusions drawn by realistic experimental data sets Design of experiments and recent posthoc tests have been used in comparing treatment effects and precision of the experimentation This book also facilitates clinicians towards understanding statistics and enabling them to follow and evaluate the real empirical studies formulation of randomized control trial that pledge insight evidence base for clinical practices This book will be a useful resource for clinicians postgraduates scholars in medicines clinical research beginners and academicians to nurture high level statistical tools with extensive scope

Experiment Station Record U.S. Office of Experiment Stations, United States. Agricultural Research Service, United States. Office of Experiment Stations, 1922

Report on the Work and Expenditures of the Agricultural Experiment Stations, 1920 *Experiment Station Record* United States. Office of Experiment Stations, 1922

Advanced Design in Nursing Research Pamela J.

Brink, Marilynn J. Wood, 1998 This Second Edition of the bestselling *Advanced Design in Nursing Research* has been substantially revised and reorganized Using the principle that the level of knowledge available on a research topic determines the level of

Advances in Experimental Philosophy of Causation Pascale Willemsen, Alex Wiegmann, 2022-06-16 What is the connection between causation and responsibility Is there a best way to theorize philosophically about causation Which factors determine and influence what we judge to be the cause of something Bringing together interdisciplinary research from experimental philosophy traditional philosophy and psychology this collection showcases the most recent developments and approaches to questions about causation Chapters discuss the diverse theoretical ramifications of empirical findings in experimental philosophy of causation providing a comprehensive survey of key issues such as the perception and learning of causal relations omission normative considerations mechanism voluntariness and legal theories of causation With novel contributions from both experts and rising stars *Advances in Experimental Philosophy of Causation* demonstrates the value of empirical work and opens new domains of inquiry at the cutting edge of the field

Cambridge Handbook of Experimental Political Science James N. Druckman, 2011-06-06 This volume provides the first comprehensive overview of how political scientists have used experiments to transform their field of study

Trade and Industrial Education ,1972 Report on the Agricultural Experiment Stations ,1903 *Report on the Agricultural Experiment Stations* United States. Agricultural Research Service, 1924 *Trade and Industrial Education; Instructional Materials* Ohio State University. Center for Vocational and Technical Education, 1972

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