

Experiment 30 Advance Study Assignment: Determination of Iron by Reaction with Permanganate—A Redox Titration

Name _____

Section _____

1. Write the balanced net ionic equation for the reaction between MnO_4^- ion and Fe^{2+} ion in acidic solution.



2. How many moles of Fe^{2+} ion can be oxidized by 1.4×10^{-2} moles MnO_4^- ion in the reaction in Question 1?

1 mole of MnO_4^- reacts with 5 moles of Fe^{2+}
 then 1.4×10^{-2} moles of MnO_4^- reacts with x moles Fe^{2+}

$$x = \frac{1.4 \times 10^{-2} \text{ moles} \times 5 \text{ moles}}{1 \text{ mole}} = 7 \times 10^{-2} \text{ moles } \text{Fe}^{2+}$$

$$7 \times 10^{-2} \text{ moles } \text{Fe}^{2+}$$

3. A solid sample containing some Fe^{2+} ion had a total mass of 0.9791 g. It required 18.2 mL 0.02034 M KMnO_4 to titrate the Fe^{2+} in the dissolved sample to a pink end point.

MnO_4^- molarity (M) = 0.02034 M

volume of KMnO_4 (V) = 18.2 mL

- a. How many moles of MnO_4^- ion were required? $= 18.2 \times 10^{-3} \text{ Liters}$

moles of MnO_4^- ion required = $M \times V$

$$= 0.02034 \frac{\text{moles}}{\text{Liter}} \times 18.2 \times 10^{-3} \text{ Lit} = 0.3701 \times 10^{-3} \text{ moles}$$

- b. How many moles of Fe^{2+} were present in the sample?

mass of Fe^{2+} ions = 0.9791 g.

molecular weight of Fe^{2+} = 55.8 g/mol.

$$\text{moles of } \text{Fe}^{2+} = \frac{\text{mass}}{\text{molecular weight}} = \frac{0.9791 \text{ g}}{55.8 \text{ g/mol}}$$

$$\text{moles of } \text{Fe}^{2+} = 0.01754 \text{ moles}$$

$$0.01754 \text{ moles}$$

Advance Study Assignment Experiment 30 Answers

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Advance Study Assignment Experiment 30 Answers:

Physics Laboratory Experiments Jerry D. Wilson,1986

Nuclear Science Abstracts ,1974

Research and Advanced

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Advances in Concurrent Engineering Biren Prasad,1996-08-22

Human-Computer Interaction and Management Information Systems: Applications. Advances in Management

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Chemical Principles in the Laboratory Emil J. Slowinski,1996 Provides a series of experiments designed to teach students the available experimental methods the proper design of experiments and the interpretation of experimental results

Database Systems for Advanced Applications Masatoshi Yoshikawa,Xiaofeng Meng,Takayuki Yumoto,Qiang Ma,Lifeng Sun,Chiemi Watanabe,2010-08-25 This book constitutes the workshop proceedings of the 15th International Conference on Database Systems for Advanced Applications DASFAA 2010 held in Tsukuba Japan in April 2010 The volume contains six workshops each focusing on specific research issues that contribute to the main themes of the DASFAA conference The First International Workshop on Graph Data Management Techniques and Applications GDM 2010 The Second International Workshop on Benchmarking of Database Management Systems and Data Oriented Web Technologies BenchmarkX 10 The Third International Workshop on Managing Data Quality in Collaborative Information Systems MCIS2010 The Workshop on Social Networks and Social Media Mining on the Web SNSMW2010 The Data Intensive eScience Workshop DIEW 2010 and The Second International Workshop on Ubiquitous Data Management UDM2010

Research and Advanced Technology for Digital Libraries ,2000

Engaged Criminology Rena C. Zito,2022-11-15 Engaged Criminology An Introduction invites students to learn and think like a criminologist through its applied learning approach Author Rena C Zito adopts a conversational tone prompting students to interrogate inequalities consider unintended consequences and envision solutions all while highlighting the role of systemic inequalities as predictors and outcomes of criminal conduct and punishment Real world examples and hands on activities get students doing criminology rather than just retaining definitions as well as fostering critical interaction with the most central ideas in contemporary criminology This title is accompanied by a complete teaching and learning package in SAGE Vantage an intuitive learning platform that integrates quality SAGE textbook content with assignable multimedia activities and auto graded assessments to drive student engagement and ensure accountability Unparalleled in its ease of use and built for dynamic teaching and learning Vantage offers customizable LMS integration and best in class support

Journal of Applied Behavior Analysis ,1973

Statistics Joint Committee on the Curriculum in Statistics and Probability,1989 This collection of intriguing essays describes important applications of statistics and probability in many fields Instead of teaching methods the essays illustrate past accomplishments and current uses of statistics and probability Surveys questionnaires experiments and observational studies are also presented to help the student better understand the importance of the influence of statistics on each topic covered within the separate essays

Conducting followup research on drug treatment programs ,1977

Radio News

,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering
edition called Radionics edition in 1943 Collier's Hansi,1913 *The Cultivator & Country Gentleman* ,1896 **Interior**
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