

# 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  $\text{MnO}_4^-$  ion and  $\text{Fe}^{2+}$  ion in acidic solution.



2. How many moles of  $\text{Fe}^{2+}$  ion can be oxidized by  $1.4 \times 10^{-2}$  moles  $\text{MnO}_4^-$  ion in the reaction in Question 1?

1 mole of  $\text{MnO}_4^-$  reacts with 5 moles of  $\text{Fe}^{2+}$   
 then  $1.4 \times 10^{-2}$  moles of  $\text{MnO}_4^-$  reacts with  $x$  moles  $\text{Fe}^{2+}$

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

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

3. A solid sample containing some  $\text{Fe}^{2+}$  ion had a total mass of 0.9791 g. It required 18.2 mL 0.02034 M  $\text{KMnO}_4$  to titrate the  $\text{Fe}^{2+}$  in the dissolved sample to a pink end point.

$$\text{MnO}_4^- \text{ molarity (M)} = 0.02034 \text{ M}$$

$$\text{volume of } \text{KMnO}_4 = V = 18.2 \text{ mL}$$

- a. How many moles of  $\text{MnO}_4^-$  ion were required?

$$\text{moles of } \text{MnO}_4^- \text{ ion required} = M \times V = 0.02034 \frac{\text{moles}}{\text{Liter}} \times 18.2 \times 10^{-3} \text{ Lit} = 0.3701 \times 10^{-3} \text{ moles}$$

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

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

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

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

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

$$0.01754 \text{ moles}$$

# Advance Study Assignment Experiment 30 Answers

**Zsolt Kovacs, Simona Gurzu, Raluca  
Ioana Stefan-van Staden, Cornelia  
Braicu**

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Physics Laboratory Experiments Jerry D. Wilson, 1986      *Nuclear Science Abstracts*, 1976      Developing Advanced Literacy in First and Second Languages Mary J. Schleppegrell, M. Cecilia Colombi, 2005-04-11 This book addresses the linguistic challenges faced by diverse populations of students at the secondary and post secondary levels as they engage in academic tasks requiring advanced levels of reading and writing Learning to use language in ways that meet academic expectations is a challenge for students who have had little exposure and opportunity to use such language outside of school Although much is known about emergent literacy in the early years of schooling much less has been written about the development of advanced literacy as students move into secondary education and beyond *Developing Advanced Literacy in First and Second Languages* Meaning With Power brings together work on first and second language acquisition and emphasizes the importance of developing advanced literacy in the first language such as Spanish for bilingual students as well as English spans a range of theoretical orientations and analytic approaches drawing on work in systemic functional linguistics genre theory and sociocultural perspectives addresses the content areas of science history and language arts provides specific information about genres and grammatical features in these content areas and presents suggestions for teacher education What unites the contributors to this volume is their shared commitment to a view of literacy that emphasizes both the social contexts and the linguistic challenges The chapters collected in this volume contribute in important ways to research and pedagogy on advanced literacy development for the multilingual and multicultural students in today's classrooms This book is particularly useful for researchers and students in language and education applied linguistics and others concerned with issues and challenges of advanced literacy development in first and second languages

**The 3rd IEEE International Conference on Advanced Learning Technologies, 9-11 July 2003, Athens, Greece**  
Vladan Devedzic, 2003      *Research and Advanced Technology for Digital Libraries* Jose Borbinha, Thomas Baker, 2003-06-26  
ECDL2000 the Fourth European Conference on Research and Advanced Technology for Digital Libraries is being held this year in Lisbon Portugal following previous events in Pisa 1997 Heraklion 1998 and Paris 1999 One major goal of the ECDL conference series has been to draw information professionals stakeholders and user communities from both the research world and from industry into a discussion of the alternative technologies policies and scenarios for global digital libraries The success of previous conferences makes them a hard act to follow The field of digital libraries draws on a truly diverse set of scientific and technical disciplines In the past three years moreover global cooperation on research and development has emerged as an urgent priority particularly in the new European Framework Programme and in the Digital Library Initiative in the United States Because of this diversity the field is perhaps still struggling for an identity But this struggle for identity is itself a source of energy and creativity Participants in this field feel themselves to be part of a special community with special people Each of us may claim expertise on a narrow issue with specific projects but the choices we make and the methods we

use in local solutions can have unforeseen impacts within a growing universe of interconnected resources      **Social Experiments in Practice: The What, Why, When, Where, and How of Experimental Design and Analysis** Laura R. Peck, 2017-01-10 This issue considers social experiments in practice and how recent advances improve their value and potential applications Although controversial it is clear they are here to stay and are in fact increasing With their greater abundance experimental evaluations have stretched to address more diverse policy questions no longer simply providing a treatment control contrast but adding multiarm multistage and multidimensional factorial designs and analytic extensions to expose more about what works best for whom Social experiments are also putting programs under the microscope when they are most ready for testing enhancing the policy value of their findings This volume provides new developments in all these areas from scholars instrumental to recent scientific advances In some instances established ideas are given new attention connecting them to new opportunities to learn and inform policy By all means this issue aims to encourage stronger and more informative social experiments in the future This is the 152nd issue in the New Directions for Evaluation series from Jossey Bass It is an official publication of the American Evaluation Association      **Series ER 60** United States. Bureau of the Census, 1963      **Investigating the Social World** Russell K. Schutt, 2018-01-30 The author is a proud sponsor of the 2020 SAGE Keith Roberts Teaching Innovations Award enabling graduate students and early career faculty to attend the annual ASA pre conference teaching and learning workshop In the Ninth Edition of his leading social research text Russell K Schutt an award winning researcher and teacher continues to make the field come alive with current compelling examples of high quality research and the latest innovations in research methodology along with a clear and comprehensive introduction to the logic and techniques of social science research Through numerous hands on exercises that promote learning by doing Investigating the Social World helps students to understand research methods as an integrated whole Using examples from research on contemporary social issues the text underscores the value of both qualitative and quantitative methodologies and the need to make ethical research decisions Investigating the Social World develops the critical skills necessary to evaluate published research and to carry out one's own original research A Complete Teaching Learning Package SAGE Premium Video Included in the interactive eBook SAGE Premium Video tools and resources boost comprehension and bolster analysis Interactive eBook Includes access to multimedia tools and much more Save when you bundle the interactive eBook with the new edition SAGE coursepacks FREE Easily import our quality instructor and student resource content including resources from ASA's TRAILS into your school's learning management system LMS and save time SAGE edge FREE online resources for students that make learning easier SPSS Student Software Package Investigating the Social World with SAGE IBM SPSS Statistics v24.0 Student Version and SAVE Bundle ISBN 978 1 5443 3426 4      ,      *Evaluation and Research Program of the U.S. Censuses of Population and Housing, 1960* United States. Bureau of the Census, 1963      Investigating the Social World with SPSS Student Version 14.0 Russell Schutt, 2006-03-06 Praise for the Fourth Edition I think this volume is a good

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**Advanced Methodologies for Bayesian Networks** Joe Suzuki, Maomi Ueno, 2016-01-07 This volume constitutes the refereed proceedings of the Second International Workshop on Advanced Methodologies for Bayesian Networks AMBN 2015 held in Yokohama Japan in November 2015 The 18 revised full papers and 6 invited abstracts presented were carefully reviewed and selected from numerous submissions In the International Workshop on Advanced Methodologies for Bayesian Networks AMBN the researchers explore methodologies for enhancing the effectiveness of graphical models including modeling reasoning model selection logic probability relations and causality The exploration of methodologies is complemented discussions of practical considerations for applying graphical models in real world settings covering concerns like scalability incremental learning parallelization and so on

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Hearings, Reports and Prints of the House Committee on Science and Astronautics United States. Congress. House. Committee on Science and Astronautics, 1967

**Database Systems for Advanced Applications** Christian S. Jensen, Ee-Peng Lim, De-Nian Yang, Wang-Chien Lee, Vincent S. Tseng, Vana Kalogeraki, Jen-Wei Huang, Chih-Ya Shen, 2021-04-06 The three volume set LNCS 12681 12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications DASFAA 2021 held in Taipei Taiwan in April 2021 The total of 156 papers presented in this three volume set was carefully reviewed and selected from 490 submissions The topic areas for the selected

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