

6. Given the following half-reaction reduction of a galvanic cell:



- a. Identify the anode and cathode half-reactions:



Note: This problem is an iron electrode with iron ions only in solution.

- b. Write the overall balanced cell reaction:



6. Write the cell notation for a galvanic cell that uses the reactions below:



7. A galvanic cell is constructed based on the following reaction:



- a. Calculate the standard free energy change (ΔG°) for this reaction at 298 K.



$$= -2(96485 \text{ C/mol})E^{\circ}$$

$$= -2(96485 \text{ C/mol})E^{\circ}$$



$$= -2(96485 \text{ C/mol})(0.77 \text{ V})$$

$$= -298000 \text{ J}$$

$$= -298 \text{ kJ}$$

- b. Is this reaction spontaneous?

Yes, this reaction is spontaneous at standard state conditions, as indicated by the negative sign of ΔG° .

Answer Keys To Problem Of The Month

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Kimmel, Donald E. Kieso**



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Table of Contents Answer Keys To Problem Of The Month

1. Understanding the eBook Answer Keys To Problem Of The Month
 - The Rise of Digital Reading Answer Keys To Problem Of The Month
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Keys To Problem Of The Month
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Keys To Problem Of The Month
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Keys To Problem Of The Month
 - Personalized Recommendations
 - Answer Keys To Problem Of The Month User Reviews and Ratings
 - Answer Keys To Problem Of The Month and Bestseller Lists
5. Accessing Answer Keys To Problem Of The Month Free and Paid eBooks
 - Answer Keys To Problem Of The Month Public Domain eBooks

- Answer Keys To Problem Of The Month eBook Subscription Services
- Answer Keys To Problem Of The Month Budget-Friendly Options
- 6. Navigating Answer Keys To Problem Of The Month eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Keys To Problem Of The Month Compatibility with Devices
 - Answer Keys To Problem Of The Month Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Keys To Problem Of The Month
 - Highlighting and Note-Taking Answer Keys To Problem Of The Month
 - Interactive Elements Answer Keys To Problem Of The Month
- 8. Staying Engaged with Answer Keys To Problem Of The Month
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Keys To Problem Of The Month
- 9. Balancing eBooks and Physical Books Answer Keys To Problem Of The Month
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Keys To Problem Of The Month
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Keys To Problem Of The Month
 - Setting Reading Goals Answer Keys To Problem Of The Month
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Keys To Problem Of The Month
 - Fact-Checking eBook Content of Answer Keys To Problem Of The Month
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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