

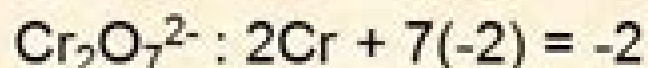
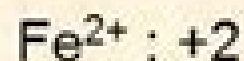
Balancing redox equations

Example

Balance the equation showing the oxidation of Fe^{2+} ions to Fe^{3+} ions by dichromate ions ($\text{Cr}_2\text{O}_7^{2-}$) in an acidic medium



Step 1: Identify oxidising and reducing agents and write half reactions



$$2\text{Cr} = 12$$

$$\text{Cr} = +6$$



Iron loses one electron, i.e. it is *oxidised*. It donates one electron to dichromate, i.e. it is the *reducing agent*.

Half equation: Oxidation reaction: $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+} + \text{e}^-$



Chromium gains three electrons, i.e. it is *reduced*. It gains its electrons from iron, i.e. it is the *oxidising agent*.

Half equation: Reduction reaction: $\text{Cr}_2^{6+} + 3\text{e}^- \rightarrow \text{Cr}^{3+}$

Analyzing Oxidation Reduction Reactions Answers

Chunlong Zhang



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Solutions Manual to Accompany Fundamentals of Environmental Sampling and Analysis Chunlong

Zhang, 2024-07-04 This is the Solutions Manual to accompany Fundamentals of Environmental Sampling and Analysis Second Edition. It provides solutions to the exercises and problems found in the main volume. This book introduces a comprehensive overview on the fundamentals and applications of environmental sampling and analysis for students in environmental science and engineering as well as environmental professionals involved in sampling and analytical work. The book details fundamentals of sampling, selection of standard methods, QA/QC, sample preparation, chemical and instrumental principles, and method applications to various contaminants in environmental matrices: air, water, soil, waste, and biological samples. The book gives an integrated introduction to sampling and analysis, both are essential to quality environmental data. For example, contrary to other books that introduce a specific area of sampling and analysis, this text provides a balanced mix of field sampling and laboratory analysis, essential knowledge in chemistry, statistics, hydrology, regulations, wet chemical methods for conventional chemicals, as well as various modern instrumental techniques for contaminants of emerging concerns. The new edition adds three standalone chapters regarding the basics of analytical and organic chemistry, environmental data analysis, mass spectrometry, and other significant amounts of new materials such as time-integrated passive sampling, incremental sampling, green sample preparation, Raman spectroscopy, chiral separation, and non-target analysis. In addition, the second edition provides more examples, visual aids, case studies, and end-of-chapter exercise problems to enhance a better understanding of the fundamentals of environmental sampling and analysis while incorporating current literature, mostly peer-reviewed journal papers regarding the applications and challenges in the field of environmental sampling and analysis.

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CliffsNotes AP Chemistry Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

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Food Analysis Suzanne Nielsen,2014-09-04

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