

**Balancing a Redox Equation for an Acidic Solution  
Using the Oxidation Number Method**  
(Student textbook page 615)

35. Use the oxidation number method to balance the following equation for the combustion of carbon disulfide:



**What Is Required?**

You must balance an equation for the combustion of carbon disulfide, using the oxidation number method.

**What Is Given?**

You are given the reactants, carbon disulfide and oxygen, and the products, carbon dioxide and sulfur dioxide.

You are given rules for assigning oxidation numbers in **Table 9.3** on page 604 of the student textbook.

Plan Your Strategy	Act on Your Strategy
<b>Step 1</b> Assign an oxidation number to each atom in the equation and determine whether it is a redox reaction.	$\overset{+4 \ -2}{\text{CS}_2}(\text{g}) + \overset{0}{\text{O}_2}(\text{g}) \rightarrow \overset{+4 \ -2}{\text{CO}_2}(\text{g}) + \overset{+4 \ -2}{\text{SO}_2}(\text{g})$ <p>The oxidation numbers of sulfur and oxygen change during the reaction. It is a redox reaction.</p>
<b>Step 2</b> Identify the atom or atoms that undergo an increase in oxidation number and the atom or atoms that undergo a decrease in oxidation number.	<p>Each of two sulfur atoms lost 6 electrons and each of two oxygen atoms gained 2 electrons. So the <math>\text{O}_2</math> lost 12 electrons and the <math>\text{CS}_2</math> gained 4 electrons.</p> $  \begin{array}{c}  \text{1}(-12\text{e}^-) = -12\text{e}^- \\  \downarrow \\  \overset{+4 \ -2}{\text{CS}_2}(\text{g}) + \overset{0}{\text{O}_2}(\text{g}) \rightarrow \overset{+4 \ -2}{\text{CO}_2}(\text{g}) + \overset{+4 \ -2}{\text{SO}_2}(\text{g}) \\  \uparrow \qquad \qquad \qquad \uparrow \qquad \qquad \uparrow \\  \text{3}(+4\text{e}^-) = +12\text{e}^-  \end{array}  $

# Redox Reaction Solutions Manual

**Wolfgang Guggemos**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Redox Reaction Solutions Manual:**

## **Redox Reaction Solutions Manual** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Redox Reaction Solutions Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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