Name _____

Chemistry - Unit 7 Review

Chemical Reaction Model

 Describe key characteristics of all chemical reactions, including the role of energy. Explain how a balanced equation represents these features (include an example).

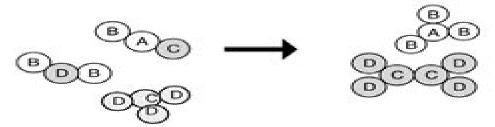
In chemical reactions, atoms of the reactants recombine to form new substances in the products. There is almost always some transfer between the thermal and chemical energy accounts as well as an exchange of thermal energy via heating (Q) between the system and surroundings. The balanced chemical equation represents this process symbolically, showing that the atoms in the products are the same as those in the reactants

 $2 H_2 + O_2 \rightarrow 2 H_2O + energy$

Note: there are 4 atoms of H and 2 atoms of O on each side of the equation.

Applying the Model

Balance the reaction below by drawing any additional reactant and/or product molecules that would be needed.



Write the balanced equation for this reaction.

$$DB_2 + CD_3 + BAC \rightarrow C_2D_4 + AB_3$$

Which of these molecules would be called reactants?

Modeling Instruction 20unit 8 Answers

RJ Shavelson

Modeling Instruction 20unit 8 Answers:

This book delves into Modeling Instruction 20unit 8 Answers. Modeling Instruction 20unit 8 Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and indepth insights into Modeling Instruction 20unit 8 Answers, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Modeling Instruction 20unit 8 Answers
 - Chapter 2: Essential Elements of Modeling Instruction 20unit 8 Answers
 - Chapter 3: Modeling Instruction 20unit 8 Answers in Everyday Life
 - Chapter 4: Modeling Instruction 20unit 8 Answers in Specific Contexts
 - ∘ Chapter 5: Conclusion
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