



Chemical Principles, International Edition

By Steven S. Zumdahl

Cengage Learning Emea, 2009. Taschenbuch. Book Condition: Neu. Neu Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - From the contents: Note: Each chapter concludes with Exercises. 1. CHEMISTS AND CHEMISTRY. Thinking Like a Chemist. A Real-World Chemistry Problem. The Scientific Method. Industrial Chemistry. Polyvinyl Chloride (PVC): Real-World Chemistry. 2. ATOMS, MOLECULES, AND IONS. The Early History of Chemistry. Fundamental Chemical Laws. Dalton's Atomic Theory. Cannizzaro s Interpretation. Early Experiments to Characterize the Atom. The Modern View of Atomic Structure: An Introduction. Molecules and Ions. An Introduction to the Periodic Table. Naming Simple Compounds. 3. STOICHIOMETRY. Atomic Masses. The Mole. Molar Mass. Percent Composition of Compounds. Determining the Formula of a Compound. Chemical Equations. Balancing Chemical Equations. Stoichiometric Calculations: Amounts of Reactants and Products. Calculations Involving a Limiting Reactant. 4. TYPES OF CHEMICAL REACTIONS AND SOLUTION STOICHIOMETRY. Water, the Common Solvent. The Nature of Aqueous Solutions: Strong and Weak Electrolytes. The Composition of Solutions. Types of Chemical Reactions. Precipitation Reactions. Describing Reactions in Solution. Selective Precipitation. Stoichiometry of Precipitation Reactions. Acid-Base Reactions. Oxidation-Reduction Reactions. Balancing Oxidation-Reduction Equations. Simple Oxidation-Reduction Titrations.5. GASES. Early Experiments. The Gas Laws of Boyle, Charles, and Avogadro. The Ideal Gas Law....



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