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Chemical Formulas and Molecular Structures; Isomers 110 Writing and Balancing Chemical Equations 111 Calculating Quantities of Reactant and Product 116 Stoichiometrically Equivalent Molar Ratios from the Balanced Equation 116. Reactions That Occur in a Sequence 120 Reactions That Involve a Limiting Reactant 122 Theoretical, Actual, and Percent Reaction Yields 127 CHAPTER REVIEW GUIDE 130 PROBLEMS 135. Chemistry book. Read 18 reviews from the world's largest community for readers. Intended for students of General Chemistry, this text contains: macroscopic. Intended for students of General Chemistry, this text contains: macroscopic to microscopic molecular illustrations; step-by-step worked exercises in every chapter; and a range of end-of-chapter problems, which provide applications covering a variety of freshman interests, including engineering, medicine, materials, and environmental studies. 5th Edition, McGraw-Hill, 2009, ISBN: 0073048593, 1221 pages. Some years ago, a question occasionally heard was "Why study chemistry?"â€" but no longer. At the core of the natura sciences, chemistry is crucial to an understanding of molecular biology, genetics, pharmacology, ecology, atmospheric science, nuclear studies, materials science, and numerous other fields. Because chemistry is so central to understanding these fields, it is a core requirement for an increasing number of academic majors. Some major societal issues also have chemical principles at their core, includ