



# Principles of Chemistry: A Molecular Approach

*Nivaldo J. Tro*

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# Principles of Chemistry: A Molecular Approach

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Great chemistry comes in small packages—and this brief new volume helps readers discover the excitement and relevance of chemistry. In this innovative book, acclaimed author Nivaldo Tro focuses exclusively on the core concepts of general chemistry without sacrificing depth or relevance. A unique integration of macroscopic, molecular, and symbolic illustrations help readers visualize the various dimensions of chemistry; and Tro's engaging writing style captures the reader's attention with relevant applications. MasteringChemistry walks readers through problem solving, while promoting understanding of chemistry concepts in the world around us.

Matter, Measurement, and Problem Solving; Atoms and Elements; Molecules, Compounds, and Chemical Equations; Chemical Quantities and Aqueous Reactions; Gases; Thermochemistry; The Quantum-Mechanical Model of the Atom; Periodic Properties of the Elements; Chemical Bonding I: Lewis Theory; Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory; Liquids, Solids, and Intermolecular Forces; Solutions; Chemical Kinetics; Chemical Equilibrium; Acids and Bases; Aqueous Ionic Equilibrium; Free Energy and Thermodynamics; Electrochemistry; Radioactivity and Nuclear Chemistry; Organic Chemistry.

A useful reference for anyone who needs to increase his or her knowledge of general chemistry.

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