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Sommario/riassunto	This monograph teaches advanced undergraduate students and practitioners how to use folded diagrams to calculate properties of complex particle systems such as atomic nuclei, atoms and molecules in terms of interactions among their constituents. Emphasis is on systems with valence particles in open shells. Detailed diagram rules are derived and illustrated by simple examples. Applications include nuclear optical model potentials, meson-exchange theory of the nucleon-nucleon interactions and molecular-structure problems.