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Sommario/riassunto	The Advances in Chemical Physics series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline. This special volume focuses on atoms and photons near meso- and nanobodies, an important area of nanotechnology. Nanoscale particles are those between 1 and 100 nm, and they obey neither the laws of quantum physics nor of classical physics due to an extensive delocalization of the valence electrons, which can vary depending on size. This means that different physical properties can be obtained from the same atoms or molecules.