



Physics of Highly Excited Atoms and Ions (Springer Series on Atomic, Optical, and Plasma Physics)

Vladimir S. Lebedev, Israel L. Beigman

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This monograph is devoted to the basic aspects of the physics of highly excited (Rydberg) states of atoms. After almost twenty years, this remains a hot topic of modern atomic physics. Such studies are important for many areas of physics and its applications including spectroscopy, astrophysics and radio astronomy, physics of electronic and atomic collisions, kinetics and diagnostics of gases, and low- and high-temperature plasmas. Physical phenomena in radiative, collisional, and spectral-line broadening processes involving Rydberg atoms and ions are primarily determined by the peculiar properties and exotic features of highly excited states. The growth of interest and research activity in the physics of Rydberg the last two decades was stimulated by an extremely rapid development of high-resolution laser spectroscopy, methods of selective excitation and detection of highly excited states, atomic-beam techniques as well as radio astronomy. This has facilitated significant progress in the different directions of the physics of highly excited atoms being of fundamental and practical importance. In particular, evident advances were achieved in studies of the structure and spectra of highly excited atoms, their behavior in static electric and magnetic fields, interactions with electromagnetic radiation, spectral-line broadening and the shift of Rydberg series, collisions with electrons, ions, atoms, and molecules, etc. The principal objective of the present book is to reflect the most important physical approaches and efficient theoretical techniques in the modern physics of highly excited atoms and ions.

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