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The content of this first volume, devoted to the systematics of atomic spectra and radiative transitions, is similar to that of Chapters 1-6, 8 and 9 of the old book, but considerable revision has been made. Some sections, such as those on the Hartree-Fock method, the Dirac equation, and relativistic corrections, have been deleted.

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## [Atomic Spectra and Radiative Transitions | I.I. Sobelman ...](#)

The spectroscopic notations and characteristics of atoms and ions including binding energies, electron affinities, fine and hyperfine structure intervals, the Lamb shift and others are given in this Chapter. The radial atomic wave functions expressed in a closed analytical form and their properties are also considered.

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Lines in the spectrum were due to transitions in which an electron moved from a higher-energy orbit with a larger radius to a lower-energy orbit with smaller radius. The orbit closest to the nucleus represented the ground state of the atom and was most stable; orbits farther away were higher-energy excited states .

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Spectroscopy is the study of the interaction between matter and electromagnetic radiation as a function of the wavelength or frequency of the radiation. Historically, spectroscopy originated as the study of the wavelength dependence of the absorption by gas phase matter of visible light dispersed by a prism. Matter waves and acoustic waves can also be considered forms of radiative energy, and ...

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