## **Spectral methods of investigation of biological systems** Danuta Wróbel

In the article various methods used in the study of the biological systems are described. Several methods of radiative transitions spectroscopy such as: vibrational – rotational spectroscopy, spectroscopy of singlet and triplet states, two – photon absorption, electron impact spectroscopy, also degree of polarization and lifetime of the excited states measurements are characterized. Radiationless spectroscopy (internal conversion and intersystem crossing) is reported too. From absorption and fluorescence measurements done on biological systems, the information concerning the structure of biological systems, mutual ordering and shape of biomolecules, interaction and energy migration between them, and the role of individual compounds of live organism in metabolic processes is derived.