



## **Spectroscopy in Biology and Chemistry: Neutron, X-Ray, Laser**

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Spectroscopy in Biology and Chemistry discusses the use of thermal neutron diffraction and inelastic scattering, and the related techniques of x-ray diffraction, Raman and Rayleigh scattering, in investigating biological macromolecules and chemical systems. The book describes neutron, x-ray and laser spectroscopy; quasielastic scattering in neutron and laser spectroscopy; and interatomic forces, molecular structure and molecular vibrations. The text also discusses the x-ray crystallography of biological molecules; neutron diffraction studies of hydrogen bonding in organic and biochemical systems; and comparative x-ray and neutron diffraction from nerve myelin membranes. Neutron spectroscopy of chain polymers; chemical and biological applications of neutron inelastic scattering; and neutron scattering and optical studies of molecular vibrations are also considered. The book further tackles small angle neutron scattering from polymers; the use of tunable laser resonance Raman spectroscopy in biology; and the use photon correlation spectroscopy in biology. Students and faculty members in physics, chemistry, and biology, and research workers in related fields will find the text invaluable.



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