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Biophysical Techniques explains in a readily-accessible way the basics of the various biophysical methods available so students can understand the principles behind the different methods used, and begin to appreciate which tools can be used to probe different biological questions, and the pros and cons of each.

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Raman spectroscopy has been known and used as a technique for 80 years, originally for the study of inorganic substances. Recent advances in underlying technology, such as lasers, detectors, filters and components, have transformed the technique into a very effective modern tool for studying complex biological problems. Professor Mahmoud Ghomi (of the University of Paris XIII) has edited this book on the applications of Raman spectroscopy to biology, covering in a readily accessible way the area from basic studies to the diagnosis of disease. The early chapters provide background information on basic principles underlying the main Raman methods covered in the book, with information on Surface-Enhanced Raman Scattering (SERS) and Surface-Enhanced Fluorescence (SEF), as well as giving accounts of applications to biomolecular and cellular investigations. Among the topics covered are studies of drugs and their complexes with biomolecules on nanoparticles, application of SERS to blood analysis, studies of single cells and of applications to human cancer diagnostics.This will be a useful book for experimental scientists in academic, governmental, industrial and clinical environments and for those entering the field of biomolecular spectroscopy.

Technical advancements are basic elements in our life. In biophysical studies, new applications and improvements in well-established techniques are being implemented every day. This book deals with advancements produced not only from a technical point of view, but also from new approaches that are being taken in the study of biophysical samples, such as nanotechniques or single-cell measurements. This book constitutes a privileged observatory for reviewing novel applications of biophysical techniques that can help the reader enter an area where the technology is progressing quickly and where a comprehensive explanation is not always to be found.

In the first volume, Fundamental Concepts in Biophysics, the authors lay down a foundation for biophysics study. Rajiv Singh opens the book by pointing to the central importance of "Mathematical Methods in Biophysics". William Fink follows with a discussion on "Quantum Mechanics Basic to Biophysical Methods". Together, these two chapters establish some of the principles of mathematical physics underlying many biophysics techniques. Because computer modeling forms an intricate part of biophysics research, Subhadip Raychaudhuri and colleagues introduce the use of computer modeling in "Computational Modeling of Receptor-Ligand Binding and Cellular Signaling Processes". Yin Yeh and coworkers bring to the reader's attention the physical basis underlying the common use of fluorescence spectroscopy in biomedical research in their chapter "Fluorescence Spectroscopy". Electrophysiologists have also applied biophysics techniques in the study of membrane proteins, and Tsung-Yu Chen et al. explore stochastic processes of ion transport in their "Electrophysiological Measurements of Membrane Proteins". Michael Saxton takes up a key biophysics question about particle distribution and behavior in systems with spatial or temporal inhomogeneity in his chapter "Single-Particle Tracking". Finally, in "NMR Measurement of Biomolecule Diffusion", Thomas Jue explains how magnetic resonance techniques can map biomolecule diffusion in the cell to a theory of respiratory control. This book thus launches the Handbook of Modern Biophysics series and sets up for the reader some of the fundamental concepts underpinning the biophysics issues to be presented in future volumes.

Advances in Protein Molecular and Structural Biology Methods offers a complete overview of the latest tools and methods applicable to the study of proteins at the molecular and structural level. The book begins with sections exploring tools to optimize recombinant protein expression and biophysical techniques such as fluorescence spectroscopy, NMR, mass spectrometry, cryo-electron microscopy, and X-ray crystallography. It then moves towards computational approaches, considering structural bioinformatics, molecular dynamics simulations, and deep machine learning technologies. The book also covers methods applied to intrinsically disordered proteins (IDPs) followed by chapters on protein interaction networks, protein function, and protein design and engineering. It provides researchers with an extensive toolkit of methods and techniques to draw from when conducting their own experimental work, taking them from foundational concepts to practical application. Presents a thorough overview of the latest and emerging methods and technologies for protein study Explores biophysical techniques, including nuclear magnetic resonance, X-ray crystallography, and cryo-electron microscopy Includes computational and machine learning methods Features a section dedicated to tools and techniques specific to studying intrinsically disordered proteins

Infrared and Raman Spectroscopy of Biological Materials facilitates a comprehensive and through understanding of the latest developments in vibrational spectroscopy. It contains explains key breakthroughs in the methodologies and techniques for infrared, near-infrared, and Raman spectroscopy. Topics include qualitative and quantitative analysis, biomedical applications, vibrational studies of enzymatic catalysis, and chemometrics.

Starting from a comprehensive quantum mechanical description, this book introduces the optical (IR, Raman, UV/Vis, CD, fluorescence and laser spectroscopy) and magnetic resonance (1D and 2D-NMR, ESR) techniques. The book offers a timely review of the increasing interest in using spin-label ESR as an alternative structural technique for NMR or X-ray diffraction. Future aspects are treated as well, but only as an illustration of the progress of ESR in this field.

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