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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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An Up-to-Date Toolbox for Probing Biology Biophysics: Tools and Techniques covers the experimental and theoretical tools and techniques of biophysics. It addresses the purpose, science, and application of all physical science instrumentation and analysis methods used in current research labs. The book first presents the historical background, concepts, and motivation for using a physical science toolbox to understand biology. It then familiarizes students from the physical sciences with essential biological knowledge. The text subsequently focuses on experimental biophysical techniques that primarily detect biological components or measure/control biological forces. The author describes the science and application of key tools used in imaging, detection, general quantitation, and biomolecular interaction studies, which span multiple length and time scales of biological processes both in the test tube and in the living organism. Moving on to theoretical biophysics tools, the book presents computational and analytical mathematical methods for tackling challenging biological questions. It concludes with a discussion of the future of this exciting field. Future innovators will need to be trained in multidisciplinary science to be successful in industry, academia, and government support agencies. Addressing this challenge, this textbook educates future leaders on the development and application of novel physical science approaches to solve complex problems linked to biological questions.

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

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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.

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.

Current techniques for studying biological macromolecules and their interactions are based on the application of physical methods, ranging from classical thermodynamics to more recently developed techniques for the detection and manipulation of single molecules. Reflecting the advances made in biophysics research over the past decade, and now including a new section on medical imaging, this new edition describes the physical methods used in modern biology. All key techniques are covered, including mass spectrometry, hydrodynamics, microscopy and imaging, diffraction and spectroscopy, electron microscopy, molecular dynamics simulations and nuclear magnetic resonance. Each method is explained in detail using examples of real-world applications. Short asides are provided throughout to

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ensure that explanations are accessible to life scientists, physicists and those with medical backgrounds. The book remains an unparalleled and comprehensive resource for graduate students of biophysics and medical physics in science and medical schools, as well as for research scientists looking for an introduction to techniques from across this interdisciplinary field.

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.

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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.

The first of its kind, Introduction to Biophysical Methods for Protein and Nucleic Acid Research serves as a text for the experienced researcher and student requiring an introduction to the field. Each chapter presents a description of the physical basis of the method, the type of information that may be obtained with the method, how data should be analyzed and interpreted and, where appropriate, practical tips about procedures and equipment. Key Features * Modern Use of Mass Spectroscopy * NMR Spectroscopy * Molecular Modeling and Graphics * Macintosh and DOS/Windows 3.x disks

Biophysical Chemistry explores the concepts of physical chemistry and molecular structure that underlie biochemical processes. Ideally suited for undergraduate students and scientists with backgrounds in physics, chemistry or biology, it is also equally accessible to students and scientists in related fields as the book concisely describes the fundamental aspects of biophysical chemistry, and puts them into a biochemical context. The book is organized in four parts, covering thermodynamics, kinetics, molecular structure and stability, and biophysical methods. Cross-references within and between these parts emphasize common themes and highlight recurrent principles. End of chapter problems illustrate the main points explored and their relevance for biochemistry, enabling students to apply their knowledge and to transfer it to laboratory projects. Features: Connects principles of physical chemistry to

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biochemistry Emphasizes the role of organic reactions as tools for modification and manipulation of biomolecules Includes a comprehensive section on the theory of modern biophysical methods and their applications

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