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Dan Minor, California Institute for Quantitative Biomedical Research, University of CaliforniaReview of first edition: 'The book I consult first when faced with an unfamiliar experimental technique. Both classic analytical techniques and the latest single-molecule methods appear in this single comprehensive reference.' Philip Nelson, University of Pennsylvania and author of Biological PhysicsReview of first edition: 'A great achievement' awaits the student who reads this book! an excellent reference for the seasoned practitioner of biophysical chemistry.' Milton H. Werner, The Rockefeller UniversityReview of first edition: 'This well written, thorough, and elegantly illustrated book provides the connections between molecular biophysics and biology that every aspiring young biologist needs.' Stephen H. White, University of California at IrvineReview of first edition: 'I enthusiastically recommend Methods in Molecular Biophysics to anyone who wishes to know more about the techniques by which the properties of biological macromolecules are determined.' David Worcester, University of MissouriReview of first edition: 'A book that teaches the methods well, creates the intellectual framework of our understanding, and can guide the field. Earlier efforts by Cohn and Edsall, Tanford, Edsall and Wyman, and Cantor and Schimmel have served this important purpose in the past, but the advance of time and technology has diluted the force of these classic works in contemporary Biophysics, both in the teaching and the practices of the field. How welcome, then, a clearly written, thoughtful and modern text that will serve well, both in formal courses and as a reference. The authors have built each method from its fundamental premises and principles, have successfully covered an impressive span of topics, and will be rewarded by attention from an audience that hungers for the next defining text in Molecular Biophysics.' D. M. Engelman, Yale University, New Haven A comprehensive graduate textbook explaining key physical methods in biology, reflecting the very latest research in this fast-moving field. Nathan R. Zaccai is a Research Associate at the Cambridge Institute for Medical Research, University of Cambridge. His current research focuses on the molecular and thermodynamic basis of the transport and presentation at cell surfaces of proteins involved in pathogen evasion and host immunity. Joseph Zaccai is Directeur de Recherche Emeritus at the Centre National de la Recherche Scientifique (CNRS), Paris and Visiting Scientist at the Institut Laue-Langevin, France and Institut de Biologie Structurale, Grenoble. His current research interests include the exploration of the role of dynamics and physical chemical limits for life. He has many years of experience in teaching biophysics to biologists, medical students, and physicians. Igor N. Serdyuk (1939-2012) was Professor of Molecular Biology and Head of the Laboratory of Nucleoprotein Physics at the Institute of Protein Research, Russian Academy of Sciences, Moscow. 'A valuable contribution to the field.' A must-have for biophysicists working in all lines of research' Nikolai Grigorieff, Brandeis University' A valuable resource for novice and seasoned biophysicists alike.' Dan Minor, California Institute for Quantitative Biomedical Research, University of California' A great achievement' awaits the student who reads this book! an excellent reference for the seasoned practitioner of biophysical chemistry.' Milton H. Werner, The Rockefeller University' This well written, thorough, and elegantly illustrated book provides the connections between molecular biophysics and biology that every aspiring young biologist needs.' Stephen H. White, University of California at Irvine' I enthusiastically recommend Methods in Molecular Biophysics to anyone who wishes to know more about the techniques by which the properties of biological macromolecules are determined.' David Worcester, University of Missouri' A book that teaches the methods well, creates the intellectual framework of our understanding, and can guide the field. Earlier efforts by Cohn and Edsall, Tanford, Edsall and Wyman, and Cantor and Schimmel have served this important purpose in the past, but the advance of time and technology has diluted the force of these classic works in contemporary Biophysics, both in the teaching and the practices of the field. 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Click to have a closer look About this book Contents Biography Our knowledge of biological macromolecules and their interactions is based on the application of physical methods, ranging from classical thermodynamics to recently developed techniques for the detection and manipulation of single molecules. These methods, which include mass spectrometry, hydrodynamics, microscopy, diffraction and crystallography, electron microscopy, molecular dynamics simulations, and nuclear magnetic resonance, are complementary; each has its specific advantages and limitations. Organised by method, this textbook provides descriptions and examples of applications for the key physical methods in modern biology. It is an invaluable resource for undergraduate and graduate students of molecular biophysics in science and medical schools, as well as research scientists looking for an introduction to techniques beyond their specialty. As appropriate for this interdisciplinary field, the book includes short asides to explain physics aspects to biologists and biology aspects to physicists. Contents Foreword; Preface; 1. Biological macromolecules and physical tools; 2. Mass spectroscopy; 3. Thermodynamics; 4. Hydrodynamics; 5. Optical spectroscopy; 6. Optical microscopy; 7. X-ray and neutron diffraction; 8. Electron diffraction; 9. Molecular dynamics; 10. Nuclear magnetic resonance; References. Customer Reviews Igor N. Serdyuk is Professor of Molecular Biology and Head of the Laboratory of Nucleoprotein Physics at the Institute of Protein Research, Pushchino, Russia. Nathan R. Zaccai is a research associate at the Department of Chemical Engineering, University of Cambridge. Joseph Zaccai is Senior Fellow for Biology at the Institut Laue-Langevin and Directeur de Recherche of the Centre National de la Recherche Scientifique. 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