

# MOLECULAR BIOLOGY

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# Spin Labeling Theory And Applications Molecular Biology Ser Vol 1

**Lawrence J. Berliner**



## **Spin Labeling Theory And Applications Molecular Biology Ser Vol 1:**

Biophysical Labeling Methods in Molecular Biology Gertz I. Likhtenshtein, 1993-03-26 This 1993 volume covers all aspects of the field of physical labels the theoretical bases the experimental techniques and shows how to interpret the resulting data

**Spin Labeling** Lawrence J. Berliner, 2013-10-22 Spin Labeling Theory and Applications covers the background theory and applications of spin labeling The book starts by providing an introduction about electron spin resonance in biology and a reporter group technique of spin labelling The text then describes the principles and theories of magnetic resonance the theory of slow tumbling ESR spectra for nitroxides and the influence of electron electron interactions on the appearance of the electron resonance spectrum The chemistry of spin labels the molecular structures of nitroxides the instrumental aspects of spin labeling as well as the use of spin labels for studying the structure and function of enzymes are also considered The book further discusses spin label induced nuclear magnetic resonance relaxation studies of enzymes anisotropic motion in liquid crystalline structures and the use of oriented lipid systems as model membranes The text also looks into the application of lipid spin labels in biological membranes as well as the molecular motion in biological membranes Chemists molecular biologists chemical physicists people involved in the study of physical spectrometry and graduate students taking related courses will find the book invaluable

Bioactive Spin Labels Renat I. Zhdanov, 2013-06-29 Bioactive Spin Labels is a collection of contributions by leading experts on nitroxyl radicals and their application in biomedicine These compounds are used as side specific contrast agents for in vivo EPR techniques Their potential as drugs is investigated Bioactive Spin Labels is a must for researchers in bioorganic chemistry pharmacology and biomedicine

Spin Labeling Lawrence J. Berliner, Jacques Reuben, 2012-12-06 We present this special topics volume on an area which has not received thorough coverage for over 12 years Spin Labeling Theory and Applications represents a complete update on new theoretical aspects and applications of the spin label method In the line shape theory sections we are especially pleased to include an IBM compatible diskette supplied by David Schneider and Jack Freed which contains fast accurate ready to use software for slow motion simulations Barney Bales discusses inhomogeneous broadening phenomena in detail Several developments in techniques and interpretation in saturation transfer spectroscopy have appeared since the publication of Spin Labeling II Theory and Applications L J Berliner ed Academic Press 1979 We have included an up to date chapter on spin label applications by M A Hemminga and P A de Jager By incorporating  $^{15}\text{N}$  and deuterium into nitroxide spin labels several unique advantages are derived in line shape analysis Albert Beth and Bruce Robinson have contributed a detailed chapter on the analysis of these labels in the slow motion regime while Jane Park and Wolfgang Trommer present the advantages for specific biochemical examples in our applications section Derek Marsh's contribution on spin label spectral analysis may be regarded as a summary chapter which touches on several of the detailed spectral analysis methods described in the earlier chapters

**Electron Spin Resonance** P B Ayscough, 2007-10-31 Specialist Periodical Reports

provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Modern Physical Methods in Biochemistry, Part A  
,1985-12-01 Modern Physical Methods in Biochemistry Part A      **Synthetic Chemistry of Stable Nitroxides** L. B. Volodarsky,V.A. Reznikov,V.I. Ovcharenko,2017-11-22 This important book is devoted to covering the synthetic aspects of nitroxide chemistry The problems of application and physicochemical properties of nitroxides are considered in the context of the choice of necessary radical structures convenient precursors and strategy of the synthesis The book offers comparisons of the concrete classes of nitroxides to help reveal the structural peculiarities and synthetic abilities of compounds of different classes It also summarizes data on the magneto structural correlation for the metal complexes with 3 imidazoline nitroxides and considers the ways in which the molecular design of 2 and 3 dimensional heterospin compounds is capable of magnetic phase transfer in a ferromagnetic state The book will be a significant reference for chemists biochemists spectroscopists and other users of nitroxides spin labels probes and paramagnetic ligands

**Spin Labeling** Lawrence Berliner,Jacques Reuben,2011-09-17 We present this special topics volume on an area which has not received thorough coverage for over 12 years Spin Labeling Theory and Applications represents a complete update on new theoretical aspects and applications of the spin label method In the line shape theory sections we are especially pleased to include an IBM compatible diskette supplied by David Schneider and Jack Freed which contains fast accurate ready to use software for slow motion simulations Barney Bales discusses inhomogeneous broadening phenomena in detail Several developments in techniques and interpretation in saturation transfer spectroscopy have appeared since the publication of Spin Labeling II Theory and Applications L J Berliner ed Academic Press 1979 We have included an up to date chapter on spin label applications by M A Hemminga and P A de Jager By incorporating  $^{15}\text{N}$  and deuterium into nitroxide spin labels several unique advantages are derived in line shape analysis Albert Beth and Bruce Robinson have contributed a detailed chapter on the analysis of these labels in the slow motion regime while Jane Park and Wolfgang Trommer present the advantages for

specific biochemical examples in our applications section Derek Marsh's contribution on spin label spectral analysis may be regarded as a summary chapter which touches on several of the detailed spectral analysis methods described in the earlier chapters

*Subject Guide to Books in Print*, 1993

Molecular Characterization and Analysis of Polymers John M. Chalmers, Robert J. Meier, 2008-12-09 Written by expert contributors from the academic and industrial sectors this book presents traditional and modern approaches to polymer characterization and analysis The emphasis is on pragmatics problem solving and property determination real world applications provide a context for key concepts The characterizations focus on organic polymer and polymer product microstructure and composition Approaches molecular characterization and analysis of polymers from the viewpoint of problem solving and polymer property characterization rather than from a technique championing approach Focuses on providing a means to ascertaining the optimum approach or technique s to solve a problem measure a property and thereby develop an analytical competence in the molecular characterization and analysis of real world polymer products Provides background on polymer chemistry and microstructure discussions of polymer chain morphology degradation and product failure and additive analysis and considers the supporting roles of modeling and high throughput analysis

*Electron Spin Resonance* M C R Symons, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**Publishers' Trade List Annual, 1980** Bobbs-Merrill Educational Co, 1980

Electron Spin Interactions in Chemistry and Biology Gertz Likhtenshtein, 2016-07-25 This book presents the versatile and pivotal role of electron spin interactions in nature It provides the background methodologies and tools for basic areas related to spin interactions such as spin chemistry and biology electron transfer light energy conversion photochemistry radical reactions magneto chemistry and magneto biology The book also includes an overview of designing advanced magnetic materials optical and spintronic devices and photo catalysts This monograph will be of interest to scientists and graduate students working in the areas related to spin interactions physics biophysics chemistry and chemical

engineering      **NMR in Molecular Biology** Oleg Jardetzky, G. C. K. Roberts, 2013-10-22 NMR in Molecular Biology provides an introduction to the basic concepts and principles of nuclear magnetic resonance NMR that are essential to a critical evaluation of experimental data. It also aims to acquaint readers in some detail with those prototype experiments in which a definite biologically relevant answer has been obtained. The book opens with a chapter on the historical development of NMR technology. Separate chapters follow on the fundamental principles of NMR paramagnetic perturbations of NMR spectra, time scales, chemical exchange, and problems of exchange, and characteristics of NMR spectra through investigations of compounds such as amino acids and peptides and nucleic acid bases, nucleosides, and nucleotides. Subsequent chapters deal with protein NMR spectra, protein-ligand interactions, and the structure and dynamics of membranes. This book is intended for the student or practicing scientist wishing to gain a critical understanding of the applications of NMR to a wide range of problems in molecular biology.

**Biochemistry** David E. Metzler, 2001-04-25 The most comprehensive textbook reference ever to cover the chemical basis of life, the Green Bible of Biochemistry has been a well-respected contribution to the field for more than twenty years. The complex structures that make up cells are described in detail along with the forces that hold them together and the chemical reactions that allow for recognition, signaling, and movement. There is ample information on the human body, its genome, and the action of muscles, eyes, and the brain. The complete set deals with the natural world, treating the metabolism of bacteria, toxins, antibiotics, specialized compounds made by plants, photosynthesis, luminescence of fireflies, among many other topics. The most comprehensive biochemistry text reference available on the market. Organized into two volumes comprising 32 chapters and containing the latest research in the field. Biological content is emphasized; for example, macromolecular structures and enzyme action are discussed.

**Update on Paramagnetic Sensors for Polymers and Composites Research** Alexander L. Kovarski, 2013-03-18 This book presents newer applications of paramagnetic sensors for the study of polymer materials, structure, microreology, and molecular dynamics. Paramagnetic or spin sensors have found wide use in structural and dynamic research of condensed media using the spectroscopy of electron paramagnetic resonance (EPR). Stable nitroxide radicals are the most exploited paramagnetic sensors which formed the basis of spin probes and labels, a technique well known to the experts in fields of chemical and biological materials science. With the proliferation of new materials, composites, nano-dimensional fillers, new trends in the methodology of paramagnetic sensors application have been outlined. This book is devoted to these new trends in polymers and nanocomposites research. It observes the methods of adaptation of EPR spectroscopy of paramagnetic sensors to interface layers investigation, analysis of the systems containing magnetic nanoparticles, identification of composites ingredients by EPR spectra of free radicals, detection of the shear component of polymer materials deformation. This book also presents at an accessible level the theory of EPR, the structure and properties of paramagnetic sensors, stable nitroxide radicals, and methods of basic parameters calculation from their EPR spectra. Intended for researchers and educators specialized in polymer material science and

colloid chemistry This book can also be used as a practical guide on paramagnetic resonance and paramagnetic sensors application for students and postgraduates Medical Books and Serials in Print ,1984 EPR and Advanced EPR Studies of Biological Systems Larry R. Dalton,2018-01-18 This work is written to provide a qualitative introduction appropriate for a general science audience to the application of paramagnetic resonance to the determination of biomolecular dynamics The work is also intended as a reference resource for those pursuing or contemplating research in the hydrodynamics The work is also intended as a reference resource for those pursuing or contemplating research in the hydrodynamic characterization of components of Biosystems Thus the Introduction Theory and Methodology sections involve presentations at two levels a pictorial and intuitive presentation for the generalist and a quantitative presentation for the specialist The sections on applications provide a critical discussion of both pure and applied research applications which yields insights into both the capabilities and limitations of the methodology The applications sections are also of interest from the standpoint of the detailed characterization of certain Biosystems such as erythrocytes which have evolved from EPR measurements

**Biological Water** Gertz I. Likhtenshtein,2021-10-21 This book embraces all physiochemical aspects of the structure and molecular dynamics of water focusing on its role in biological objects e g living cells and tissue and in the formation of functionally active structures of biological molecules and their ensembles Water is the single most abundant chemical found in all living things It offers a detailed look into the latest modern physical methods for studying the molecular structure and dynamics of the water and provides a critical analysis of the existing literature data on the properties of water in biological objects Water as a chemical reagent and as a medium for the formation of conditions for enzymatic catalysis is a core focus of this book Although well suited for active researchers the book as a whole as well as each chapter on its own can be used as fundamental reference material for graduate and undergraduate students throughout chemistry physics biophysics and biomedicine **Multifrequency Electron Paramagnetic Resonance** Sushil K. Misra,2011-03-31 Filling the gap for a systematic authoritative and up to date review of this cutting edge technique this book covers both low and high frequency EPR emphasizing the importance of adopting the multifrequency approach to study paramagnetic systems in full detail by using the EPR method In so doing it discusses not only the underlying theory and applications but also all recent advances with a final section devoted to future perspectives

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