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Computational and Instrumental Methods in EPR Christopher J. Bender, Lawrence Berliner, 2007-12-27

Computational and Instrumental Methods in EPR is devoted to both instrumentation and computation aspects of EPR while addressing applications such as spin relaxation time measurements. However, this is the first comprehensive volume to offer practical, non-invasive spectroscopic methods of analyzing the rheology of biopolymers, comparative studies of polymer fluidity using traditional methods, e.g., viscosity and nuclear magnetic resonance. **Biological Magnetic Resonance**

Lawrence J. Berliner, Jacques Reuben, 1978. Annotation: Describes techniques and applications that have emerged since the previous volume in the series on spin labeling in 1989 and marks a shift in the series to topic-focused volumes. Among the topics are the analysis of spin label line shapes with novel inhomogeneous broadening from different components, widths and applications to spatially disconnected domains in membranes, a comparison of spin label spectra at X band and W band, the site-directed spin labeling of membrane proteins and of interactions between peptides and membranes, spin-labeled nucleic acids and electron paramagnetic resonance studies of living animals and related model systems. Annotation copyrighted by Book News Inc., Portland, OR. EPR: Instrumental Methods Christopher J. Bender, Lawrence J. Berliner, 2012-12-06. Electron

magnetic resonance spectroscopy is undergoing something akin to a renaissance that is attributable to advances in microwave circuitry and signal processing software. EPR: Instrumental Methods is a textbook that brings the reader up to date on these advances and their role in providing better experimental techniques for biological magnetic resonance. Chapters in this book guide the reader from basic principles of spectrometer design through the advanced methods that are providing new vistas in disciplines such as oximetry, imaging and structural biology. Key Features: Spectrometer design, particularly at low frequencies below X band; Design of spectrometer components unique to ENDOR and ESEEM; Optimization of EMR spectrometer sensitivity spanning many octaves; Algorithmic approach to spectral parameterization; Application of Fourier Methods to polymer conformation, oximetry and imaging. Biological Magnetic Resonance Lawrence Berliner, 1978-11-01. Biological magnetic resonance, NMR and EPR is a rapidly expanding area of research with much activity in most universities and research institutions. International conferences are held biennially with an increasing number of participants. With the introduction of sophisticated and continuously improving instrumentation, biological magnetic resonance is approaching the state of a common physical method in biochemical, biomedical and biological research. The lack of monographs on the subject had been conspicuous for a long time. This gap started to close only recently. However, because of the rapid expansion and intensive research, many texts are dated by the time of their appearance. Therefore, we have undertaken the editing of a series that is intended to provide the practicing chemist, biochemist or biologist with the advances and progress in selected contemporary topics. In seeking to make the series as authoritative as possible, we have invited authors who have not only made significant contributions but who are also currently active in their fields. We hope that their

expertise as well as their first hand experience as reflected in the chapters of this volume will be of benefit to the reader inter alia in planning his own experiments and in critically evaluating the current literature **Nitroxides** Alexander

Kokorin, 2012-09-12 Nitroxide aminoxyl radicals became the start point for one of the most interesting and rapidly developing areas of modern chemical physics with valuable applications to biophysics molecular biology polymer sciences and medicine This book consisting of 15 chapters gathered in 3 sections written by authors actively involved in the area of spin label probe technique The authors describe in detail some novel trends and analyze new approaches of practical applications of nitroxide radicals The book recommended by the Governing Council of N Semenov International Center of Chemical Physics Moscow will be of help to many scientists chemists physical chemists biophysicists biologists physicians and other experts in a variety of disciplines in which spin labels and probes are used as well as to students and PhD students It may be also suitable for teaching and may help to promote the progress in natural sciences **Nuclear Magnetic Resonance** G. A. Webb, Krystyna

Kamienska-Trela, 2010-03 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth both as a technique and in its applications Today's applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Nucleic Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR Nuclear Magnetic Resonance provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications

Computational Aspects of the Study of Biological Macromolecules by Nuclear Magnetic Resonance

Spectroscopy Jeffrey C. Hoch, 2013-11-21 This volume is the scientific chronicle of the NATO Advanced Research Workshop on Computational Aspects of the Study of Biological Macro molecules by Nuclear Magnetic Resonance Spectroscopy which was held June 3 8 1990 at Il Ciocco near Barga Italy The use of computers in the study of biological macromolecules by NMR spectroscopy is ubiquitous The applications are diverse including data collection reduction and analysis Furthermore their use is rapidly evolving driven by the development of new experimental methods in NMR and molecular biology and by phenomenal increases in computational performance available at reasonable cost Computers no longer merely facilitate but are now absolutely essential in the study of biological macromolecules by NMR due to the size and complexity of the data sets that are obtained from modern experiments The Workshop and this proceedings volume provide a snapshot of the uses of computers in the NMR of biomolecules While by no means exhaustive the picture that emerges illustrates both the importance and the diversity of their application **Magnetic Resonance in Biological Systems** A. Ehrenberg, B. G.

Malmström, T. Vänngård, 2013-09-24 Magnetic Resonance in Biological Systems Volume 9 is a collection of manuscripts

presented at the Second International Conference on Magnetic Resonance in Biological Systems held in Wenner Gren Center Stockholm Sweden on June 1966 The conference is sponsored by International Union of Biochemistry Swedish Medical Research Council Swedish Natural Science Research Council Wenner Gren Center Foundation for Scientific Research This book contains 51 chapters and begins with reviews of NMR investigations of biological macromolecules including proteins amino acids and glycylglycine copper II Considerable chapters are devoted to numerous biological studies using the electronic paramagnetic resonance EPR thus introducing the branch of science called submolecular biology This book also explores other applications of NMR and EPR with special emphasis on blood component analysis and protein metal complexes The final chapters survey the principles and applications of Mossbauer spectroscopy This book will prove useful to analytical chemists and biologists Characterization of Polymer Blends Sabu Thomas,Yves Grohens,P.

Jyotishkumar,2015-02-09 Filling the gap for a reference dedicated to the characterization of polymer blends and their micro and nano morphologies this book provides comprehensive systematic coverage in a one stop two volume resource for all those working in the field Leading researchers from industry and academia as well as from government and private research institutions around the world summarize recent technical advances in chapters devoted to their individual contributions In so doing they examine a wide range of modern characterization techniques from microscopy and spectroscopy to diffraction thermal analysis rheology mechanical measurements and chromatography These methods are compared with each other to assist in determining the best solution for both fundamental and applied problems paying attention to the characterization of nanoscale miscibility and interfaces both in blends involving copolymers and in immiscible blends The thermodynamics miscibility phase separation morphology and interfaces in polymer blends are also discussed in light of new insights involving the nanoscopic scale Finally the authors detail the processing morphology property relationships of polymer blends as well as the influence of processing on the generation of micro and nano morphologies and the dependence of these morphologies on the properties of blends Hot topics such as compatibilization through nanoparticles miscibility of new biopolymers and nanoscale investigations of interfaces in blends are also addressed With its application oriented approach handpicked selection of topics and expert contributors this is an outstanding survey for anyone involved in the field of polymer blends for advanced technologies **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 *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 **Biomedical**

Index to PHS-supported Research ,1987 *Biological Magnetic Resonance* Lawrence J. Berliner,Jacques Reuben,2003

American Book Publishing Record ,2006 Innovative Physical Chemistry Perspectives Praveen Kaushik,2025-02-20 Innovative Physical Chemistry Perspectives offers a refreshing take on traditional concepts in physical chemistry presenting them through innovative approaches modern applications and interdisciplinary insights Authored by experts this comprehensive volume explores fundamental principles and cutting edge research topics inviting readers to engage with the dynamic and evolving landscape of physical chemistry Each chapter delves into specific aspects providing in depth discussions theoretical foundations and practical examples From nanochemistry and biomolecular interactions to quantum mechanics and statistical mechanics we cover a wide range of topics highlighting the interconnectedness of various subfields and their relevance to real world phenomena Through clear explanations illustrative examples and thought provoking discussions Innovative Physical Chemistry Perspectives aims to inspire curiosity critical thinking and a deeper appreciation for the complexities of matter and energy at the molecular level Whether you re a student researcher or enthusiast in the field this book serves as a valuable resource for expanding your knowledge and understanding With its emphasis on modern perspectives interdisciplinary approaches and practical applications Innovative Physical Chemistry Perspectives is set to become an essential reference for anyone seeking to explore physical chemistry from new and exciting angles **Research**

Awards Index ,1987 The British National Bibliography Arthur James Wells,2006 **Electron Paramagnetic**

Resonance: Volume 27 Bela E. Bode,Damien M. Murphy,Victor Chechik,2020-11-25 Electron paramagnetic resonance EPR applications remain highly significant in modern analytical science and this volume compiles critical coverage of developments in the recent literature The topics covered in this volume describe contrasting types of EPR application including rapid scan EPR using the EPR toolkit to investigate the structural dynamics of membrane proteins and pulse dipolar EPR spectroscopy for investigating biomolecular binding events An additional chapter reviewing the PARACAT collaboration from the EU has also been included Providing a snapshot of the area by a handpicked group of researchers at the cutting edge of the field this book is a useful addition to any library supporting this research **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 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1972

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