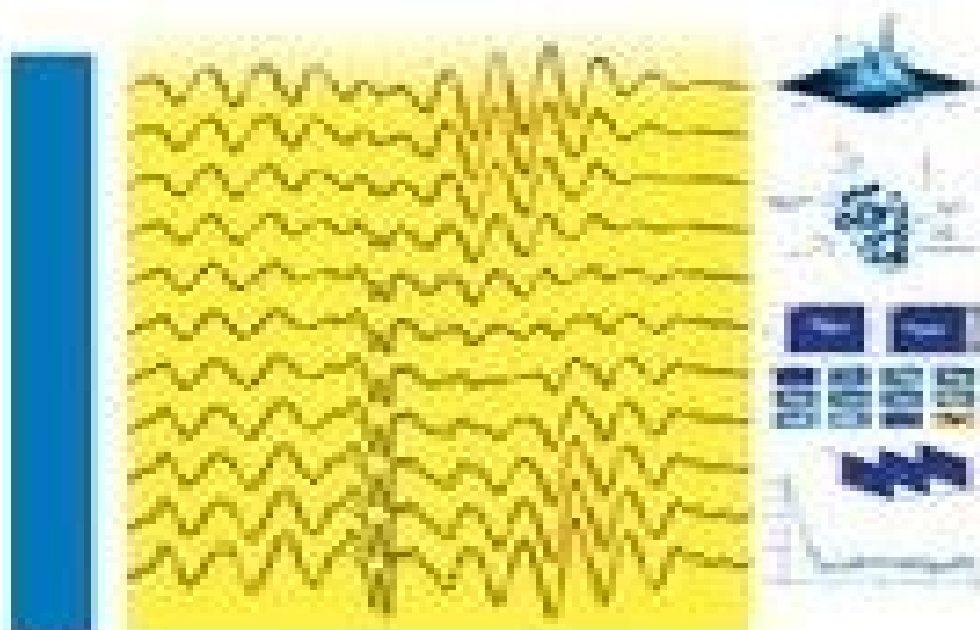


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Multifrequency Electron Paramagnetic Resonance

Theory and Applications



Multifrequency Electron Paramagnetic Resonance Theory And Applications

Gertz I. Likhtenshtein



Multifrequency Electron Paramagnetic Resonance Theory And Applications:

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

Multifrequency Electron Paramagnetic Resonance Sushil K. Misra, 2014-03-19 This handbook is aimed to deliver an up to date account of some of the recently developed experimental and theoretical methods in EPR as well as a complete up to date listing of the experimentally determined values of multifrequency transition ion spin Hamiltonian parameters by Sushil Misra reported in the past 20 years extending such a listing published by him in the Handbook on Electron Spin Resonance volume 2 This extensive data tabulation makes up roughly 60% of the book's content It is complemented by the first full compilation of hyperfine splittings and g factors for aminoxyl nitroxide radicals since 197 by Larry Berliner a world expert on spin labeling helping to identify and interpret substances and processes by means of EPR techniques The book also includes coverage of the recently developed experimental technique of rapid scan EPR by Sandra Eaton and Gareth Eaton and a thorough review of computational modeling in EPR by Stefan Stoll author of Easy Spin

Electron Paramagnetic Resonance John A. Weil, James R. Bolton, 2007-02-26 This book provides an introduction to the underlying theory fundamentals and applications of EPR spectroscopy as well as new developments in the area Knowledge of the topics presented will allow the reader to interpret of a wide range of EPR spectra as well as help them to apply EPR techniques to problem solving in a wide range of areas organic inorganic biological and analytical chemistry chemical physics geophysics and mineralogy Includes updated information on high frequency and multi frequency EPR pulsed microwave techniques and spectra analysis dynamic effects relaxation phenomena computer based spectra simulation biomedical aspects of EPR and more Equips readers with sufficient knowledge of EPR techniques to go on in their specialized area of interest Provides problem sets and concise bibliographies at the end of each chapter plus several tutorial appendices on topics like mathematical operations quantum mechanics of angular momentum experimental considerations

Multi Frequency EPR Spectroscopy of Conjugated Polymers and Their Nanocomposites Victor I. Krinichnyi, 2016-10-14 Conjugated polymeric materials and their nanocomposites are widely used for the creation of alternative sources of renewable energy cell phone screens mobile gadgets video players and OLED TV as well as organic diodes transistors sensors etc with field dependent and spin assisted electronic properties Multifrequency EPR Spectroscopy methods can help researchers optimize their structural magnetic and electronic properties for the creation of more efficient molecular devices This book will acquaint the reader with the basic properties of conjugated polymers the fundamentals of EPR Spectroscopy and the information that can be obtained at different wavebands of EPR

spectroscopy **Electron Paramagnetic Resonance in Modern Carbon-Based Nanomaterials** Dariya Savchenko, Abdel Hadi Kassiba, 2018-06-05 This volume presents information about several topics in the field of electron paramagnetic resonance EPR study of carbon containing nanomaterials It introduces the reader to an array of experimental and theoretical approaches for the analysis of paramagnetic centers dangling bonds interface defects vacancies and impurities usually observed in modern carbon containing materials such as nanographites graphene disordered onion like carbon nanospheres DOLCNS single walled carbon nanotubes SWCNTs multi walled carbon nanotubes MWCNT graphene oxide GO reduced graphene oxide rGO nanodiamonds silicon carbonitride SiCN and silicon carbide SiC based composites and thin films In particular the book describes in detail The fundamentals of EPR spectroscopy and its application to the carbon containing materials The resolution of the EPR signals from different species in carbon materials EPR characterization of spin dynamics in carbon nanomaterials Magnetic properties of DWCNTs and MWCNTs polymer composites EPR investigations on GO rGO and CNTs with different chemical functionalities EPR spectroscopy of semiconducting SWCNTs thin films and their transistors In situ EPR investigations of the oxygenation processes in coal and graphene materials The two temperature EPR measurement method applied to carbonaceous solids Characterization of impurities in nanodiamonds and SiC nanomaterials and related size effects by CW and pulse EPR techniques Application of multifrequency EPR to the study of paramagnetic defects in a Si_{1-x}C_x H thin films and a SiC_xN_y based composites This volume is a useful guide for researchers interested in the EPR study of paramagnetic centers in the carbon containing thin films nanomaterials ceramics etc It is also a valuable teaching tool at graduate and postgraduate levels for advanced courses in analytical chemistry applied sciences and spectroscopy

Electron Paramagnetic Resonance Bruce C Gilbert, Damien M Murphy, Victor Chechik, 2012-11-30 Specialist Periodical Reports provide systematic and critical review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject the series creates a unique service for the active research chemist with regular critical in depth accounts of progress in particular areas of chemistry Subject coverage of all volumes is very similar and publication is on an annual or biennial basis As EPR continues to find new applications in virtually all areas of modern science including physics chemistry biology and materials science this series caters not only for experts in the field but also those wishing to gain a general overview of EPR applications in a given area

Ewing's Analytical Instrumentation Handbook, Fourth Edition Nelu Grinberg, Sonia Rodriguez, 2019-02-21 This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique This edition thoroughly expands and updates the chapters to include concepts applications and key references from recent literature It also contains a new chapter on process analytical technology

EPR Spectroscopy Daniella Goldfarb, Stefan Stoll, 2018-03-06 This unique self contained resource is the first volume on electron paramagnetic resonance EPR

spectroscopy in the eMagRes Handbook series The 27 chapters cover the theoretical principles the common experimental techniques and many important application areas of modern EPR spectroscopy EPR Spectroscopy Fundamentals and Methods is presented in four major parts A Fundamental Theory B Basic Techniques and Instrumentation C High Resolution Pulse Techniques and D Special Techniques The first part of the book gives the reader an introduction to basic continuous wave CW EPR and an overview of the different magnetic interactions that can be determined by EPR spectroscopy their associated theoretical description and their information content The second provides the basics of the various EPR techniques including pulse EPR and EPR imaging along with the associated instrumentation Parts C and D builds on parts A and B and offer introductory accounts of a wide range of modern advanced EPR techniques with examples of applications The last two parts presents most of the new advances that do not appear in most of the classical EPR textbooks that focus on CW EPR EPR Spectroscopy Fundamentals and Methods contains in concise form all the material needed to understand state of the art EPR spectroscopy at the graduate school research level whilst the editors have ensured that it presents the topic at a level accessible to newcomers to the field and others who want to know its range of application and how to apply it

Magnetic Resonance of Semiconductors and Their Nanostructures Pavel G. Baranov, Hans Jürgen von Bardeleben, Fedor Jelezko, Jörg Wrachtrup, 2017-03-20 This book explains different magnetic resonance MR techniques and uses different combinations of these techniques to analyze defects in semiconductors and nanostructures It also introduces novelties such as single defects MR and electron paramagnetic resonance based methods electron spin echo electrically detected magnetic resonance optically detected magnetic resonance and electron nuclear double resonance the designated tools for investigating the structural and spin properties of condensed systems living matter nanostructures and nanobiotechnology objects Further the authors address problems existing in semiconductor and nanotechnology sciences that can be resolved using MR and discuss past current and future applications of MR with a focus on advances in MR methods The book is intended for researchers in MR studies of semiconductors and nanostructures wanting a comprehensive review of what has been done in their own and related fields of study as well as future perspectives *Handbook of Solid State Chemistry, 6 Volume Set* Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who's Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also

on practical applications of these novel materials in real chemical situations

Spin Resonance Spectroscopy Chandran Karunakaran, 2018-01-02 Spin Resonance Spectroscopy Principles and Applications presents the principles recent advancements and applications of nuclear magnetic resonance NMR and electron paramagnetic resonance EPR in a single multi disciplinary reference Spin resonance spectroscopic techniques through NMR and EPR are widely used by chemists physicists biologists and medicinal chemists This book addresses the need for new spin resonance spectroscopy content while also presenting the principles recent advancements and applications of NMR and EPR simultaneously Ideal for researchers and students alike the book provides a single source of NMR and EPR applications using a dynamic holistic and multi disciplinary approach Presents a highly interdisciplinary approach by including NMR and EPR applications in chemistry physics biology and biotechnology Addresses both NMR and EPR making its concepts and applications implementable in multiple resonance environments and core scientific disciplines Features a broad range of methods examples and illustrations for both NMR and EPR to aid in retention and underscore key concepts

[An Introduction to Markov State Models and Their Application to Long Timescale Molecular Simulation](#) Gregory R. Bowman, Vijay S. Pande, Frank Noé, 2013-12-02 The aim of this book volume is to explain the importance of Markov state models to molecular simulation how they work and how they can be applied to a range of problems The Markov state model MSM approach aims to address two key challenges of molecular simulation 1 How to reach long timescales using short simulations of detailed molecular models 2 How to systematically gain insight from the resulting sea of data MSMs do this by providing a compact representation of the vast conformational space available to biomolecules by decomposing it into states sets of rapidly interconverting conformations and the rates of transitioning between states This kinetic definition allows one to easily vary the temporal and spatial resolution of an MSM from high resolution models capable of quantitative agreement with or prediction of experiment to low resolution models that facilitate understanding Additionally MSMs facilitate the calculation of quantities that are difficult to obtain from more direct MD analyses such as the ensemble of transition pathways This book introduces the mathematical foundations of Markov models how they can be used to analyze simulations and drive efficient simulations and some of the insights these models have yielded in a variety of applications of molecular simulation

Handbook of High Field Dynamic Nuclear Polarization Vladimir K. Michaelis, Robert G. Griffin, Björn Corzilius, Shimon Vega, 2020-01-03 Addresses Dynamic Nuclear Polarization DNP as a technique for sensitivity enhancement in solid state NMR spectroscopy This comprehensive handbook is a compendium of the current state of the art of high field Dynamic Nuclear Polarization from long proven early developments up to today's hot topics It covers all the relevant subjects that have made a direct or indirect contribution toward advancing this field and focuses on topics such as the theory behind the effects seen within DNP instrumentation required for carrying out DNP and specific applications of DNP including protein monitoring catalysis nanoparticles biological and clinical studies Development and application of techniques that have

indirectly contributed to advancing MAS DNP NMR such as DNP experiments on static solids within microwave resonant structures and high field EPR are also examined Handbook of High Field Dynamic Nuclear Polarization is presented in three sections Theoretical Aspects DNP Development instrumentation radical sample and DNP NMR Applications The first section offers chapters on solid and cross effect DNP thermal mixing Overhauser and dissolution DNP The second looks at microwave technology gyrotron and IOE homebuilt and commercial DNP spectrometers and glassing vs solvent free DNP The final section provides information on amyloid membrane and nanocrystalline proteins metals and surface enhanced DNP pharmaceuticals nanoparticles and much more Covers one of the biggest developing fields in magnetic resonance Relevant to students academics and industry within the physical materials medical and biochemical sciences An excellent starting point and point of reference for researchers in the field Edited by a widely respected team with contributions from key researchers in the NMR community Part of the eMagRes Handbook Series Handbook of High Field Dynamic Nuclear Polarization is an ideal reference for all researchers and graduate students involved in this complex interdisciplinary field About eMagRes Handbooks eMagRes publishes a wide range of online articles on all aspects of magnetic resonance in physics chemistry biology and medicine The existence of this large number of articles written by experts in various fields is enabling the publication of a series of eMagRes Handbooks on specific areas of NMR and MRI The chapters of each of these handbooks will comprise a carefully chosen selection of eMagRes articles In consultation with the eMagRes Editorial Board the eMagRes Handbooks are coherently planned in advance by specially selected Editors and new articles are written to give appropriate complete coverage The handbooks are intended to be of value and interest to research students postdoctoral fellows and other researchers learning about the scientific area in question and undertaking relevant experiments whether in academia or industry Have the content of this Handbook and the complete content of eMagRes at your fingertips Visit www.wileyonlinelibrary.com/ref/eMagRes

Electron Magnetic Resonance Ashutosh Kumar Shukla, 2019-08-28 Electron Magnetic Resonance Applications in Physical Sciences and Biology Volume 50 describes the principles and recent trends in different experimental methods of Electron Magnetic Resonance EMR spectroscopy In addition to principles experimental methods and applications each chapter contains a complete list of references that guide the reader to relevant literature The book is intended for both skilled and novice researchers in academia professional fields scientists and students without any geographical limitations It is useful for both beginners and experts in the field of Electron Spin Resonance who are looking for recent experimental methods of EMR techniques Features a bottoms up approach with each chapter opening with basic theory and principles that are followed by recent trends and applications Focuses on applications and data interpretation thus avoiding extensive use of mathematics Includes content from scientists working with lead manufacturers of EMR machines Provides thorough comparisons of the features of each EMR machine Written by experts in ESR spectroscopy from all over the world giving the content global appeal

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 *Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part B*, 2015-10-08 Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels Spin Probes and Intrinsic Metal Ions Part A B are the latest volumes in the Methods in Enzymology series continuing the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods centered on the use of Electron Paramagnetic Resonance EPR techniques to study biological structure and function Timely contribution that describes a rapidly changing field Leading researchers in the field Broad coverage Instrumentation basic theory data analysis and applications

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

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

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

Computational Techniques for Analytical Chemistry and Bioanalysis Philippe B Wilson, Martin Grootveld, 2020-12-08 As analysis in terms of detection limits and technological innovation in chemical and biological fields has developed so computational techniques have advanced enabling greater understanding of the data Indeed it is now possible to simulate spectral data to an excellent level of accuracy allowing chemists and biologists access to robust and reliable analytical methodologies both experimentally and theoretically This work will serve as a definitive overview of the field of computational simulation as applied to analytical chemistry and biology drawing on recent advances as well as describing essential established theory Computational approaches provide additional depth to biochemical problems as well as offering alternative explanations to atomic scale phenomena Highlighting the innovative and wide ranging breakthroughs made by leaders in computational spectrum prediction and the application of computational methodologies to analytical science this book is for graduates and postgraduate researchers showing how computational analytical methods have become accessible across disciplines Contributed chapters originate from a group of internationally recognised leaders in the field each applying computational techniques to develop our understanding of and supplement the data obtained from experimental analytical science

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