

# MAGNETIC AND ELECTRIC RESONANCE AND RELAXATION

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# Magnetic Electric Resonance Relaxati

**Hubert Goenner, Giuseppe Castagnetti**



## **Magnetic Electric Resonance Relaxati:**

Resonances - A Volume In Honor Of The 70th Birthday Of Nicolaas Bloembergen M D Levenson, Peter S Pershan, Eric Mazur, Yuen Ron Shen, 1990-10-29 The authors are former students and research fellows of Prof Nicolaas Bloembergen winner of the Nobel Prize who has pioneered three distinct fields of science NMR masers and nonlinear optics Each author has contributed a paper of current interest inspired by some aspect of Prof Bloembergen's 50 year career This volume contains a historical record of one of the great scientists of the 20th century including a complete bibliography of his papers four of his most significant publications and evidence of his impact on generations of scientists U.S. Government Research Reports, 1962 *Nuclear Science Abstracts*, 1976 Advances in Chemical Physics, Volume 81 Ilya Prigogine, Stuart A. Rice, 2009-09-09 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics

**Dielectrics in Time-Dependent Fields** Bozzano G Luisa, 2012-12-02 Theory of Electric Polarization Volume II Dielectrics in Time Dependent Fields focuses on the processes reactions and principles involved in the application of dielectrics in time dependent fields as well as the Kerr effect statistical mechanics and polarization The publication first examines the phenomenological theory of linear dielectrics in time dependent fields empirical description of dielectric relaxation and the relationship between macroscopic and molecular dielectric relaxation behavior Concerns cover the relationship between macroscopic and microscopic correlation functions statistical mechanics of linear dissipative systems and the relationship between response functions and correlation functions superpositions of distribution functions and the use of complex dielectric constant in problems with time dependent field sources The book then ponders on the dipole correlation function polarization in the infrared and optical frequency range and the Kerr effect and related phenomena Discussions focus on the Kerr effect in condensed systems extensions of the Kerr effect extrapolation of the refractive index to infinite wavelength results obtained from computer simulations rotational diffusion and general aspects of molecular reorientation The manuscript tackles the dielectric properties of molecular solids and liquid crystals and experimental determination of permanent dipole and quadrupole moments The text is a valuable source of data for researchers interested in the application of dielectrics in time dependent fields

**Nuclear Moments** H. Kopferman, E. E. Schneider, 2013-10-22 Nuclear Moments focuses on the processes methodologies reactions and transformations of molecules and atoms including magnetic resonance and nuclear moments The book first offers information on nuclear moments in free atoms and molecules including theoretical foundations of hyperfine structure isotope shift spectra of diatomic molecules and vector model of molecules The manuscript then takes a look at nuclear moments in liquids and crystals Discussions focus on nuclear

paramagnetic and magnetic resonance and nuclear quadrupole resonance The text discusses nuclear moments and nuclear models as well as simple conclusions from experimental data and graphical representations of nuclear models and moments An explanation of symbols used in the manuscript is also presented The book is a dependable reference for readers interested in the study of nuclear moments     Scientific and Technical Aerospace Reports ,1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database     Establishing Quantum Physics in Berlin Hubert Goenner,Giuseppe Castagnetti,2021-01-27 This book explores Albert Einstein s move to Berlin and the establishment of the Kaiser Wilhelm Institute for Physics under his directorship Einstein s call to Berlin was supported by a group of prominent physicists including Fritz Haber Walter Nernst Max Planck Heinrich Rubens Emil Warburg and the young astronomer Erwin Freundlich in the expectation that Einstein and the institute would take the lead in advancing quantum physics in its early phase Examining both the abortive attempt and the successful opening of the institute in 1917 it also discusses in detail the institute s activities up to 1922 when Einstein relinquished the directorship as well as his reasons for stepping down The final chapter evaluates the institute s activities and its role in the advancement of physics In the end the institute only partially fulfilled the expectations of its promoters because of the waning interest in quantum physics on the part of its director and board and also because of Einstein s refusal to exert scientific leadership The book is part of a series of publications in the SpringerBriefs series on the early network of quantum physics The other books in the four volume collection address the beginnings of quantum physics research at G ttingen Copenhagen and Munich These works emerged from an expansive study on the quantum revolution as a major transformation of physical knowledge undertaken by the Max Planck Institute for the History of Science and the Fritz Haber Institute 2006 2012 For more on this project see the dedicated Feature Story The Networks of Early Quantum Theory at the Max Planck Institute for the History of Science <https://www.mpiwg-berlin.mpg.de/feature-story/networks-early-quantum-theory>     **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1965     **Masers and Lasers** Defense Documentation Center (U.S.),1962

*Introduction to Biophysical Methods for Protein and Nucleic Acid Research* Jay A. Glasel,Murray P. Deutscher,1995-11-20 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     *Catalog of National Bureau of Standards Publications, 1966-1976* United States. National Bureau of Standards,1978     **Technical Abstract Bulletin** ,1964     *Catalog of National Bureau of Standards Publications, 1966-1976: Key word index* United

States. National Bureau of Standards. Technical Information and Publications Division,1978      **EPR IMAGING and IN VIVO EPR** Gareth R. Eaton,2018-01-18 This volume provides a detailed examination of the physical basis for EPR imaging and in vivo EPR spectroscopy experimental arrangements and data analysis The EPR imaging methods described include continuous wave spin echo detected and ENDOR detected EPR with constant stepped modulated and pulsed magnetic field gradients Applications described include inhomogeneous materials diffusion kinetics reaction kinetics orientation of liquid crystals microwave distributions magnetic field distributions superconductors radiation damage and defects in solids The book also covers other topics important to in vivo studies including in vivo EPR spectroscopy low frequency EPR state of the art low frequency EPR instruments achievable sensitivity and spin labels The book will be of great interest to graduate students researchers and medical instrument developers who use EPR as well as clinicians and chemists interested in the relationship between in vivo radicals such as superoxide and diseases      **Characterization and Measurement of Magnetic Materials** Fausto Fiorillo,2004-12-07 Correct and efficient measurements are vital to the understanding of materials properties and applications This is especially so for magnetic materials for which in last twenty years our understanding and use have changed dramatically New or improved materials have been created and have reached the market The Soft amorphous alloys the Fe based rare earth magnets and the giant magnetorestrictive and magnetoresistive materials have all posed challenges to measurement At the same time new digital measurement techniques have forced a change in laboratory and commercial measuring setups A revision of measuring standards also occurred in the 1990s with the result that there is now a lack of up to date works on the measurement of magnetic materials The basic objective of this work is to provide a comprehensive overview of the properties of the hard and soft magnetic materials relevant to applications and of thoroughly discussing the modern methodologies for employed in the measurement of these properties The balance of these topics results in a complete text on the topic which will be invaluable to researchers students and practitioners in industry It will be of significant interest not only to scientists working in the fields of power engineering and materials science but also to specialists in measurement who be able to easily find all the information they need Comprehensive overview of the properties of the hard and soft magnetic materials Provides applications and discusses thoroughly the modern methodologies for employed in the measurement of these properties Provides the latest up to date works on the measurement of magnetic materials      **Government-wide Index to Federal Research & Development Reports** ,1966-09      Publications of the National Bureau of Standards United States. National Bureau of Standards,Betty L. Oberholtzer,1967      **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards. Technical Information and Publications Division,1978      Progress in Low Temperature Physics ,2011-09-22 Progress in Low Temperature Physics

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