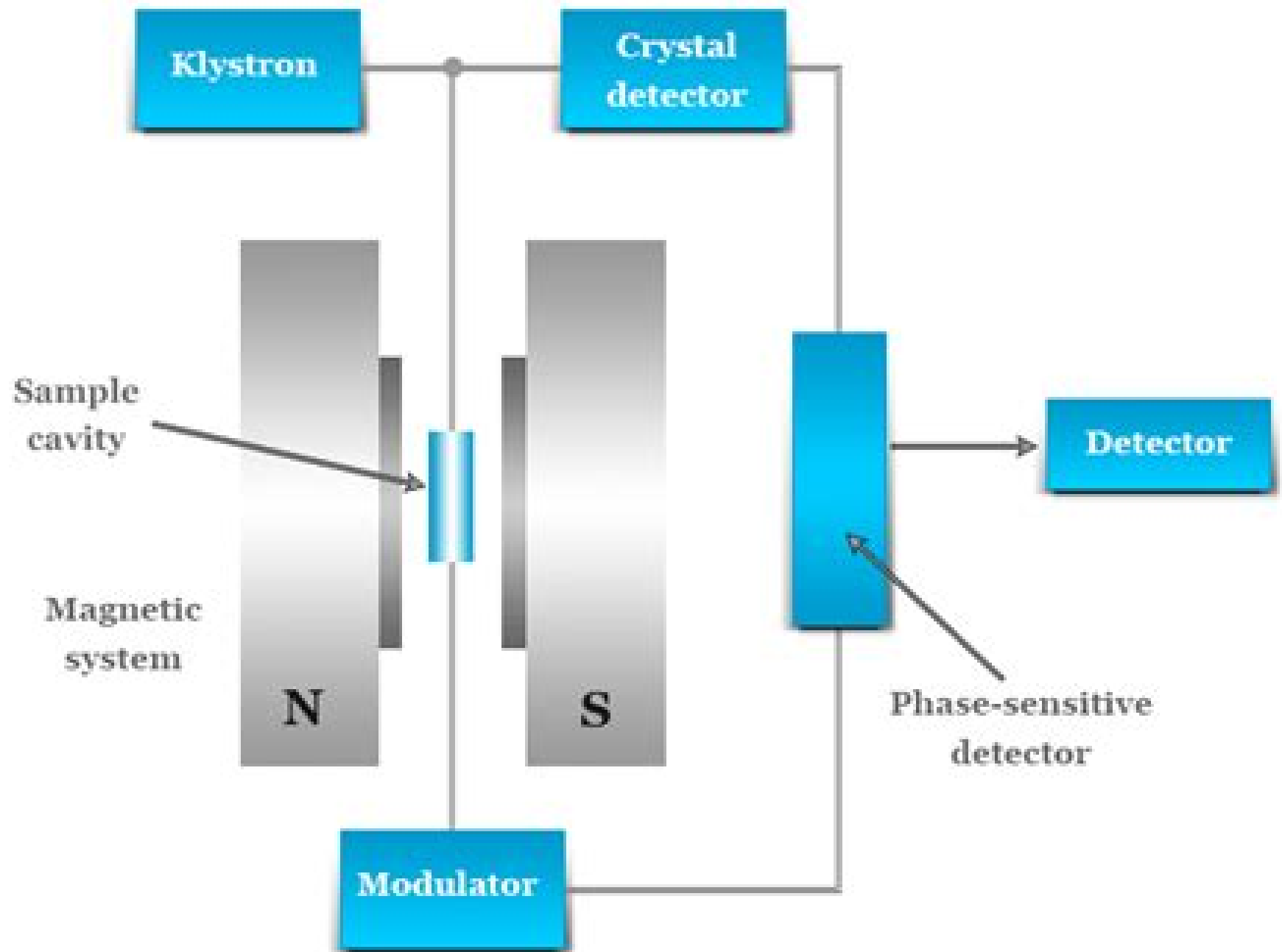




# Electron Spin Resonance

**Neil Manning Atherton**



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**Electron Spin Resonance** Charles P. Poole, 1996-01-01 Second edition of classic reference contains comprehensive coverage of experimental techniques theoretical and practical aspects of ESR instrumentation Recent developments plus how to build use ESR spectrometer References 1982 edition      **Electron Spin Resonance** Philip Rieger, 2007-10-31 This book describes in mathematical terms the extraction of useful information from ESR spectra as applied to paramagnetic organic inorganic and organometallic molecules It lays a firm groundwork for understanding more sophisticated experiments which the availability of newer commercial instruments has made possible It takes the reader step by step through obtaining and interpreting ESR spectra of paramagnetic molecules The mathematical basis of each observed phenomena are detailed and examples given In particular there is a detailed discussion of 2nd order perturbation theory treatment of the Spin Hamiltonian for non coincident G and A axes      *Theoretical Foundations of Electron Spin Resonance* John E. Harriman, 2013-10-22

*Theoretical Foundations of Electron Spin Resonance* deals with the theoretical approach to electron paramagnetic resonance The book discusses electron spin resonance in applications related to polyatomic probably organic free radicals in condensed phases The book also focuses on essentially static phenomena that is the description and determination of stationary state energy levels The author reviews the Dirac theory of the electron in which a four component wave function is responsible for the behavior of the electron The author then connects this theory with the nonrelativistic wave function theory The book also addresses the relationship between spin Hamiltonian parameters and observable energy levels as well as the expressions for specific spin Hamiltonian parameters concerning operators and wave functions The book discusses wave functions for open shell systems as well as how to extract values of spin Hamiltonian from information related to wave functions The author then examines empirically adjusted parameters that can determine the wave function itself This book can prove valuable for scientists involved with nuclear physics molecular physics and researchers in chemical physics      **Introduction to**

**Electron Spin Resonance** Harry M. Assenheim, 2014-07-08      *Electron Spin Resonance* P. B. Ayscough, 1985 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

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various levels and applications are presented in order of increasing difficulty with reference to theoretically obtained results. This book features a diverse array of application examples from fields such as ionizing radiation dosimetry, neurodegenerative diseases, structural transitions in proteins and the origins of terrestrial life. The final chapter of this book highlights the principles and applications of the technique of ferromagnetic resonance spectroscopy followed by a brief introduction to advanced EPR techniques such as electron spin echo envelope modulation (ESEEM), hyperfine sub level correlation (HYSCORE), pulsed electron-electron double resonance (PELDOR) and continuous wave electron nuclear double resonance (ENDOR) experiments.

**Electron Spin Resonance of Paramagnetic Crystals** L. Sorin, 2012-12-06. The authors of this contribution to the literature of resonance spectroscopy in paramagnetic systems are primarily concerned with the properties of the rare earth ions and as such the formal derivation of crystal field theory is set out in a manner which reflects this dominant interest. The ions of the 3d transition group are perhaps given too cursory a treatment in Chapter Two for those students of RF spectroscopy who have a somewhat less rare earth oriented interest in the subject. Since the examples cited in the text do include some 3d transition ions it is perhaps worthwhile in a preface of this sort to extend the broad theoretical concepts and group characterization of Chapter Two to cover in a somewhat more detailed manner the derivation of the spin Hamiltonian for this case. In Chapter Two mention is made of the fact that for the 4f rare earth ions the spin-orbit coupling energy is in general large compared to the crystal field influence of the surrounding ligand matrix. In such a case the quantum number  $J$  is a good quantum number for the rare earth ion in question and the crystal field effects are taken into account within  $1M$  states. In this formulation which is pursued in detail in this book the effects of spin-orbit coupling have been taken care of at the very outset by the defining of the  $1M$  states.

**Electron Spin Resonance in Chemistry** Lev Aleksandrovich Bliumenfel'd, Vladislav Vladislavovich Voevodskii, Anatolii Grigor'evich Semenov, 1973. *Electron Paramagnetic Resonance Spectroscopy* Patrick Bertrand, 2020-02-03. Although originally invented and employed by physicists, electron paramagnetic resonance (EPR) spectroscopy has proven to be a very efficient technique for studying a wide range of phenomena in many fields such as chemistry, biochemistry, geology, archaeology, medicine, biotechnology and environmental sciences. Acknowledging that not all studies require the same level of understanding of this technique, this book thus provides a practical treatise clearly oriented toward applications which should be useful to students and researchers of various levels and disciplines. In this book the principles of continuous wave EPR spectroscopy are progressively but rigorously introduced with emphasis on interpretation of the collected spectra. Each chapter is followed by a section highlighting important points for applications together with exercises solved at the end of the book. A glossary defines the main terms used in the book and particular topics whose knowledge is not required for understanding the main text are developed in appendices for more inquisitive readers.

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