

Electron Paramagnetic Resonance: A Practitioners Toolkit

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This book offers a pragmatic guide to navigating through the complex maze of EPR/ESR spectroscopy fundamentals, techniques, and applications. Written for the scientist who is new to EPR spectroscopy, the editors have prepared a volume that de-mystifies the basic fundamentals without weighting readers down with detailed physics and mathematics, and then presents clear approaches in specific application areas. The first part presents basic fundamentals and advantages of electron paramagnetic resonance spectrscopy. The second part explores severalapplication areas including chemistry, biology, medicine, materials and geology. A frequently-asked-questions sections focuses on practicalquestions, such as the size of sample, etc. It's an ideal, hands-on reference for chemists and researchers in the pharmaceutical and materials (semiconductor) industries who are looking for a basic introduction to EPR spectroscopy.

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Editorial Review

Review
?*Electron Paramagnetic Resonance: A Practitioner?s Toolkit* is an excellent reference, especially for newcomers to the field of EPR spectroscopy.? (*JACS* , February 2009)

From the Back Cover
Easy-to-follow guide helps you take full advantage of EPR spectroscopy's capabilities

Electron Paramagnetic Resonance: A Practitioner's Toolkit serves as a practical guide that enables you to navigate through and make sense of the complex maze of electron paramagnetic resonance (EPR) spectroscopy fundamentals, techniques, and applications. The first half of this book is dedicated to explaining the core principles of EPR spectroscopy, using clear, easy-to-follow explanations and examples while avoiding complex physics and mathematics. The second half of the book focuses on applications, including problem-solving strategies for such fields as biology, medicine, material science, chemistry, physics, and radiation effects on matter.

Carefully edited by two experienced EPR scientists, this book features a team of eighteen expert authors. Their contributions are based not only on a thorough examination and analysis of the primary literature, but also on their own firsthand experience in research and applications. As a result, the book is filled with practical advice, tips, and cautions addressing such issues as:

- Choosing the right experiment
- Selecting experimental parameters and sample size
- Avoiding setbacks and pitfalls
- Simulating the spectra

With its straightforward explanations and clear examples, this book is just what researchers need to take full advantage of EPR spectroscopy's tremendous capabilities. It is particularly recommended for those interested in applications to chemistry, biology, medicine, and material science.

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