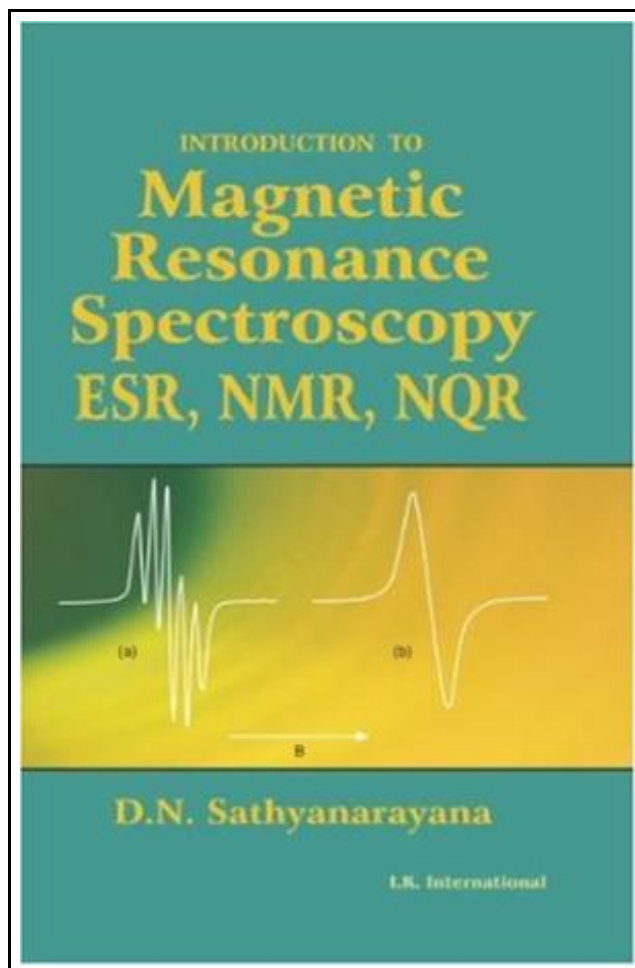


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INTRODUCTION TO MAGNETIC RESONANCE SPECTROSCOPY ESR, NMR, NQR



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I.K. International Publishing House Pvt.Ltd., 2009. Hardcover. Book Condition: New. This book brings together the three branches of magnetic resonance spectroscopy namely, electron spin resonance (ESR), nuclear magnetic resonance (NMR) and nuclear quadrupole resonance (NQR) and presents a coherent and progressive coverage of the subject in a simple and lucid style. Each part covers the physical basis of a related spectroscopic method and its chemical applications. The emphasis is on obtaining and interpreting some types of spectra often met in the laboratory that can be applied in solving problems related to structure and behaviour of organic and inorganic molecules. Each part concludes with references to advanced literature and exercises that test the readers' understanding. This text may be used for self study. The text will benefit post graduate students at M.Sc., M. Phil. And research in Chemistry, Physics, Biology and Pharmacology. Key Features: ? Use of Huckel and crystal field theory as tools in the interpretation of spectra. ? Extended coverage of 2D NMR spectra. ? NMR of nuclei such as ^{13}C , ^{19}F and ^{31}P . ? Non-mathematical description of the experiments. ? Develops the foundation in a clear step-by-step manner. ? End of chapter exercises. Contents: 1. General Introduction / PART-1: Electron Spin Resonance / 2. Basic theory / 3. Hyperfine structure / 4. Experimental Aspects: ESR / 5. Spectral Characteristics: Line Width and Anisotropy / 6. Dynamic Processes / 7. The Triplet State / 8. Transition Metal Complexes / 9. Double Resonance Techniques / PART-2: Nuclear Magnetic Resonance / 10. General Principles / 11. Chemical Shift / 12. Spine-Spin Coupling / 13. Experimental Aspects: NMR / 14. Dynamic NMR Spectroscopy / 15. Spectra of Other Nuclei: ^{13}C , ^{19}F and ^{31}P / 16. Relaxation Processes / 17. Multiple Resonance Techniques / 18. Selected Topics / 19. Two-Dimensional NMR Spectroscopy / PART-3:...



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