



Biological Magnetic Resonance: Volume 2

By -

Springer. Paperback. Book Condition: New. Paperback. 351 pages. Dimensions: 9.0in. x 6.0in. x 0.8in. We are pleased to present this second volume of a series that has already received much interest. The application of magnetic resonance methods to the study of actual biological systems as contrasted to cell-free samples, although not entirely novel, as demonstrated by Civan and Shporer in Volume I, has taken on new dimensions with the use of phosphorus-31 and carbon-13 NMR in studying cells, tissues, and organelles. The applications of ^{31}P NMR to such systems is reviewed in this volume, while carbon-13 will be covered in a later one. The use of nitroxide spin labels has grown to the point where it now may be considered a common biological technique. The synthesis and applications of a new class of nitroxides is described in this volume. ESR spectroscopy of paramagnetic ions is a powerful approach to studying molecular and structural details, as the chapter by Boas, Pilbrow, and Smith on the ESR of copper in Volume 1 has shown. In this volume the ESR of molybdenum and iron is treated in a comparable fashion. In the first volume some aspects of ^1H NMR spectroscopy of certain...



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