



High Resolution NMR: Theory and Chemical Applications

Edwin D. Becker

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High Resolution NMR: Theory and Chemical Applications discusses the principles and theory of nuclear magnetic resonance and how this concept is used in the chemical sciences. This book is written at an intermediate level, with mathematics used to augment verbal descriptions of the phenomena.

This text pays attention to developing and interrelating four approaches - the steady state energy levels, the rotating vector picture, the density matrix, and the product operator formalism. The style of this book is based on the assumption that the reader has an acquaintance with the general principles of quantum mechanics, but no extensive background in quantum theory or proficiency in mathematics is required. This book begins with a description of the basic physics, together with a brief account of the historical development of the field. It looks at the study of NMR in liquids, including high resolution NMR in the solid state and the principles of NMR imaging and localized spectroscopy.

This book is intended to assist chemistry graduate students, advanced undergraduate students, or researchers to understand NMR at a fundamental level. This text also provides illustrations of the applications of NMR to the determination of the structure of small organic molecules and macromolecules, including proteins.

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