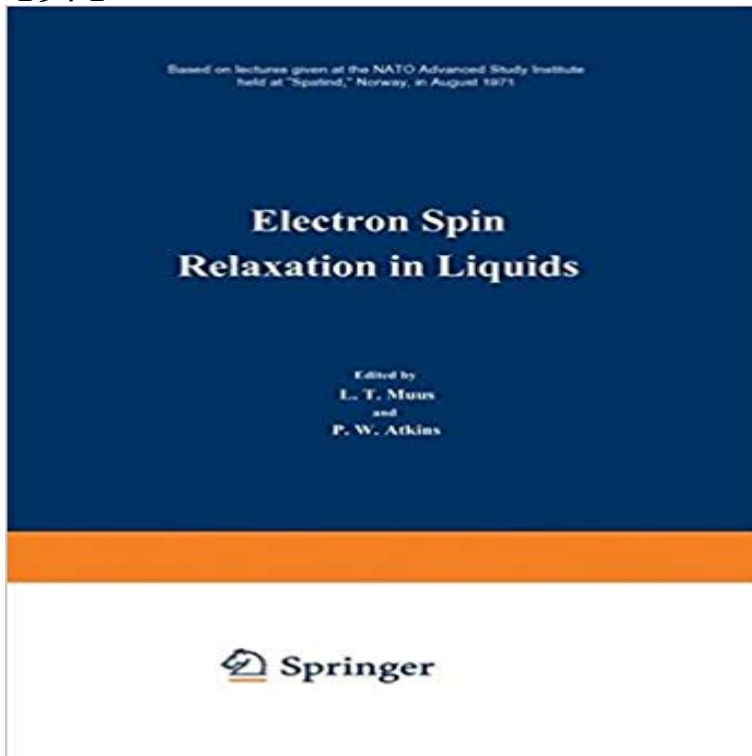


Electron Spin Relaxation in Liquids: Based on lectures given at the NATO Advanced Study Institute held at Spatind, Norway, in August 1971



Electron spin relaxation has established itself as an important experimental method for studying the details of molecular motion in liquids, and as a harsh testing ground for theoreticians. The theoretical difficulties are connected with the complexity of the molecular motion, and the theoretical interest lies not only in its important consequences for the interpretation of experiments, but also in the fascination of a system in which a well-defined quantum mechanical component is in interaction with a complex quasi-classical environment. It is because the theories are concerned with such dissimilar but connected systems that the techniques involved are so numerous. Many of the standard manipulations of quantum mechanics must be brought to bear, and at the same time they must be combined with statistical techniques which are often of considerable sophistication. The purpose of this volume is to present a survey of these techniques and their application to spin relaxation problems. No single volume can be exhaustive, but we believe that the contributions to this volume are sufficiently broad to show how those who are concerned with spin relaxation problems think about the subject and circumvent, or expose, its difficulties. The first few Chapters (I-V) review the basic quantum mechanical and statistical manipulations which are often used.

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