



Solid State NMR of Polymers (Studies in Physical and Theoretical Chemistry)

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In polymer science and technology, the advanced development of various new polymer materials with excellent properties and functions is desirable. For this purpose it is necessary to determine the exact relationship between physical properties and molecular structure-dynamics with powerful techniques. One such technique is solid state NMR. Recently, high resolution NMR studies of solids have been realized by using advanced pulse and mechanical techniques, which has resulted in a variety of structural and dynamical information on polymer systems. Solid state NMR has provided characteristic information which cannot be obtained by other spectroscopic methods.

This book is divided into two parts. The first part covers the principles of NMR, important NMR parameters such as chemical shifts, relaxation times, dipolar interactions, quadrupolar interactions, pulse techniques and new NMR methods. In the second part, applications of NMR to a variety of polymer systems in the solid state are described.

Features of this book:

- Contains an up-to-date and comprehensive account of solid state NMR of polymers by leading researchers in the field
- Provides a compilation of solid state NMR of polymers, which makes it an ideal reference book for both NMR researchers and general polymer scientists.

This book will be of interest to the NMR community, and will be invaluable for both the beginner and the expert.



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