



# Nuclear Magnetic Resonance Spectroscopy of Boron Compounds (NMR Basic Principles and Progress)

By Heinrich Nöth, Bernd Wrackmeyer

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The revolutionary impetus of the NMR methods in organic chemistry has parallels in the field of boron chemistry. IIB NMR spectroscopy provided a basis for the elucidation of structures and reactions of the boron hydrides. However, although many studies have been carried out with the higher boranes, carboranes, metalloboranes, etc., and although certain patterns have emerged, the correlation between the observed chemical shift and the assigned structural unit is still not fully understood. Therefore, predictions in this area are still rather limited, and semiquantitative interpretations are not yet possible. Several years ago Eaton and Lipscomb summarized the status in this field in their book "NMR Studies of Boron Hydrides and Related Compounds" and a plethora of new data has accumulated since then. The book also contained material on simple borane derivatives, but they were not discussed in any detail. On the other hand many systematic studies, both synthetic and spectroscopic, have been conducted on these simple boron materials in the last decade. Thus a large amount of NMR information is available, not only on IIB but also on  $^1\text{H}$ ,  $^{13}\text{C}$ , and  $^{14}\text{N}$ . However, this information is widely scattered in the literature, and often the data are not discussed at all. It seemed appropriate, therefore, to collect these data and to present them in one volume.

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