

# Nuclear magnetic resonance spectroscopy, analytical chemistry by open learning.

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**Legend:**

- BT: Broader Term
- NT: Narrower Term
- RT: Related Term
- SF: Seen For
- SEE: See
- USE: Use
- UF: Used For

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AbstractAbstract

[en] This elementary text on NMR spectroscopy is designed for self-study, primarily by those studying to be chemical technicians. The style is informal and direct. The basic elements of chemical shifts, spin-spin coupling, integrated intensities, and relaxation times are discussed briefly, with examples, but the emphasis is much more on this is the way it is than on providing a satisfying rationale. Quick introduction to sample preparation, NMR instrumentation, and signal enhancement techniques are included, but these are very sketchy. Only four pages are devoted to the Fourier Transform technique, hardly enough to give anyone a reasonable basis for understanding the technique and its power. About a third of the main part of the text is devoted to practical applications of  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectroscopy, including structural assignments of peaks in the spectra of simple molecules and quantitative measurements of simple mixtures. The author provides a variety of questions and problems throughout the book, some of the simple memory-retention type but some more thought-provoking. The last 90 pages of the book are devoted to answering the questions and problems posed in the five chapters

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1986; 291 p; John Wiley and Sons; New York, NY (USA); [ISBN 0-471-91177-1](#);

; From review by Gerald Ray Miller, Univ. of Maryland, in J. Am. Chem. Soc., Vol. 110, No. 11 (1988).

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