DESCRIPTION

This is the fifth edition of the highly successful, classic textbook for bachelor and master courses, with over 20 % new material and the contents completely revised and updated.

Using a minimum of mathematics, it explains the underlying theory of this most important spectroscopic technique in a thorough, yet readily understandable way, covering instrumentation and interpretation of the spectra. It presents all students need to know about 1D, 2D-NMR, solid state and dynamic NMR spectroscopy, as well as NMR imaging, all illustrated by examples for maximum clarity. All the sections include sub-chapters that focus on applications taken from organic, macromolecular, polymer and biochemistry.

A must for students and lecturers in chemistry, biochemistry, pharmacy, and life sciences, as well as for spectroscopists.

ABOUT THE AUTHOR

Horst Friebolin did his Ph.D. under the supervision of Prof. R. Mecke at the University of Freiburg, Germany, in 1963. Between 1963 and 1979 he worked at the Institute for electronic materials at the Fraunhofer Society and at the Institute for Macromolecular Chemistry at the University of Heidelberg. After two years in industry (BASF, Ludwigshafen, Germany) he finished 1971 his habilitation and joined in 1972 the Institute for Organic Chemistry at the University of Heidelberg, where he was appointed full Professor in 1974. His research fields are the isolation and characterization of natural products as well as enzyme-catalyzed reactions.
NEW TO EDITION

- This fifth Edition has over 20% new material and is completely revised and updated.

- New to this Edition: Questions and Answers; more on solid state NMR, completely new and timely applications of NMR, polymer section restructured and reorganized according to natural and synthetic polymers.

FEATURES

- Provides all basic knowledge of the theory, instrumentation and especially interpretation of the spectra.

- Keeps mathematics to a minimum.

- Thoroughly explains this important spectroscopic technique in a very understandable manner.

- Illustrates concepts by examples and applications from organic, macromolecular, polymer and biochemistry.

- All sections include sub-chapters, which focus on the application of the technique, which is very valuable in understanding the use of NMR in science and industrial applications.

- Lucidly written, layout and illustrations are designed for maximum clarity.
Contains Questions and Answers

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