DESCRIPTION

First published over 40 years ago, this was the first text on the identification of organic compounds using spectroscopy. This text presents a unified approach to the structure determination of organic compounds based largely on mass spectrometry, infrared (IR) spectroscopy, as well as multinuclear and multidimensional nuclear magnetic resonance (NMR) spectroscopy. The key strength of this text is the extensive set of practice and real-data problems (in Chapters 7 and 8). Even professional chemists use these spectra as reference data. *Spectrometric Identification of Organic Compounds* is written by and for organic chemists, and emphasizes the synergistic effect resulting from the interplay of spectra. This text is characterized by its problem-solving approach with numerous practice problems and extensive reference charts and tables.

ABOUT THE AUTHOR

Robert M. Silverstein, PhD was born in Baltimore, MD, and moved to Staten Island at a young age. He received his bachelor’s degree from the University of Pennsylvania in 1937 and his masters’ degree from New York University in 1941. He served with the U.S. Army during World War II. He then earned his doctorate from New York University.


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### NEW TO EDITION

- Dr. David Bryce, of the University of Ottawa, joins the 8th edition as co-author.

- Presents a unified approach to the structure determination of organic compounds based largely on mass spectrometry, infrared (IR) spectroscopy, with multinuclear and multidimensional nuclear magnetic resonance (NMR) spectroscopy.

- The 8th edition of this text maintains its student-friendly writing style. Wording throughout the text has been updated for consistency in order to reflect modern usage and methods.

- New information on polymers and phosphorus functional groups has been added to Chapter 2 on IR spectroscopy.

- Chapter 3 on proton NMR spectroscopy has been revised and updated. The latest techniques in cutting-edge NMR signal enhancement methods are highlighted.

- Chapter 6, on multinuclear magnetic resonance, includes details on additional isotopes of interest to the chemist and additional tables of chemical shifts and coupling constants.

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