

17 O Nmr Spectroscopy In Organic Chemistry

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Journal of General Chemistry of the U.S.S.R. in English Translation
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a true introductory text for learning the spectroscopic techniques of nuclear magnetic resonance infrared ultraviolet and mass spectrometry it can be used in a stand alone spectroscopy course or as a supplement to the sophomore level organic chemistry course

teaches the use of the complementary information afforded by four types of spectrometry for identification of organic compounds mass infrared nuclear magnetic resonance and ultra violet spectrometry throughout the emphasis is on the relationship between chemical structure and spectral response of the molecule each chapter includes problems to facilitate student comprehension and demonstrate practical aspects of the material also provided are extensive reference material in charts and tables at the end of each chapter solved problems and 50 sets of spectra of compounds to be identified in addition to extensive updating the fifth edition includes a new chapter on new dimensions in nmr spectrometry

this book comprehensively and critically reviews the analysis of coal derived liquids by modern spectroscopic techniques all the major techniques used in the analysis of coal liquids are included with detailed chapters on mass infrared ultraviolet and luminescence nuclear magnetic resonance and electron spin resonance spectroscopy each method is critically evaluated and the limitations and problems that the complexity of typical coal liquids impose on each technique are discussed the book also includes a discussion of solvent fractionation chromatographic separations and the pyrolysis and hydrolysis of coal liquids a detailed review of the composition of coal liquids from various coal liquefaction processes and a brief introduction to coal science are also included this is the only comprehensive coverage of the spectroscopic analysis of coal liquids it also contains a wealth of information on the composition and properties of coal liquids produced from various coal types under a variety of processing conditions these two features alone should make it essential reading for all professionals involved in liquid fuels research

organized around functional groups this book incorporates problem solving help orientation features and complete discussions of mechanisms acid base chemistry lewis structures bronsted electron structure shell orbitals magnetic shielding bonding formation patterns polarity mo resonance stereochemistry mo theory conformational analysis thermodynamics kinetics reaction coordinate diagrams chirality regioselectivity synthesis aromaticity carbonyl chemistry a comprehensive reference for chemistry professionals

this book provides new information on the control of monolignol coupling and on modifying the biochemical steps in their formation and configuration the text provides a critical assessment of recent advances in delineating the relationships and biosynthetic pathways of lignins and lignans the discussion emphasizes lignin and lignan formation particularly the templates for lignin assembly and the control of stereochemical coupling

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