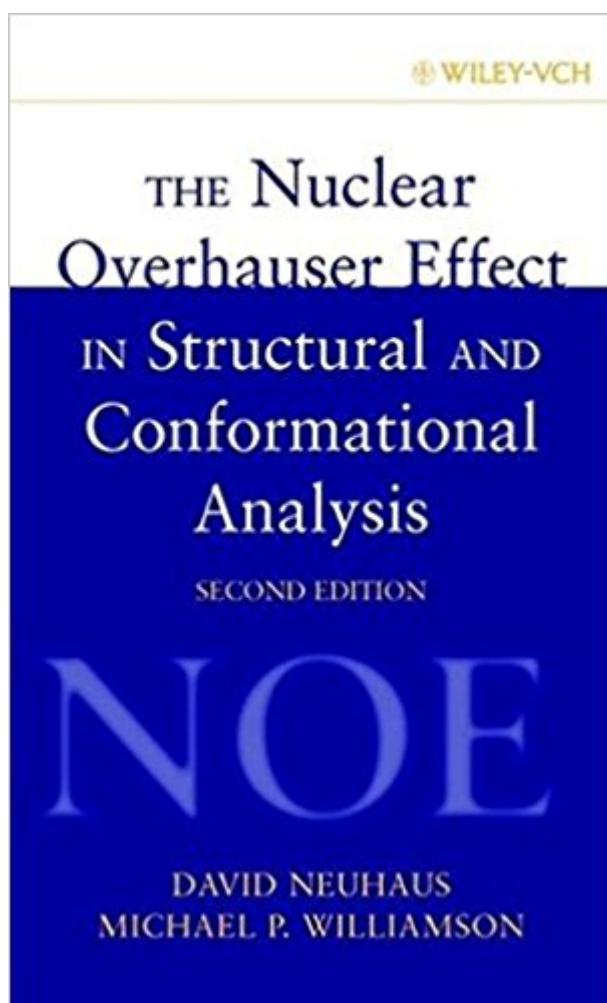


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The Nuclear Overhauser Effect In Structural And Conformational Analysis, 2nd Edition



Synopsis

An authoritative review of the state of the art in the Nuclear Overhauser Effect-essential information for organic chemists, biochemists, biophysicists, and NMR spectroscopists The field of NMR spectroscopy has seen tremendous growth in the last twenty years, particularly advances relating to Nuclear Overhauser Effect (NOE) spectroscopy-the most powerful technique for obtaining structural information on molecules in solution. Extensive and engaging, the Second Edition of the leading reference on the NOE is significantly updated to reflect the latest changes and new approaches in the field. Neuhaus and Williamson provide an essential guide to the complexities and use of the NOE in a readily accessible, straightforward manner. Their practical handbook features a new chapter addressing the use of NOE data to calculate biomolecular structures. Chapters dealing with the kinetics of the NOE, the effects of exchange and internal motion, and applications of the NOE, are also extensively revised. Cross-referenced in remarkable depth, The Nuclear Overhauser Effect is organized into three main parts: * Part I describes the theory of the Nuclear Overhauser Effect in a clear, comprehensive fashion * Part II discusses the considerations involved in implementing NOE experiments, including full coverage of all necessary details for both new and established techniques * Part III offers examples of how the NOE is used, including applications to defining molecular geometry, stereochemistry, conformation, and biomolecular structure and interactions The Nuclear Overhauser Effect in Structural and Conformational Analysis, Second Edition, uniquely explains the NOE in detail, making it an indispensable resource for the novice as well as the experienced NMR researcher.

Book Information

Hardcover: 656 pages

Publisher: Wiley-VCH; 2 edition (April 10, 2000)

Language: English

ISBN-10: 0471246751

ISBN-13: 978-0471246756

Product Dimensions: 6.4 x 1.4 x 9.5 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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"Describes the theory of the nuclear Overhauser effect, discusses the considerations involved in implementing NOE experiments, and offers examples..." (SciTech Book News, Vol. 24, No. 4, December 2000)

This book is a comprehensive treatment of the nuclear Overhauser effect (NOE), an important branch of NMR spectroscopy concerned with structural and conformational problems. This volume presents the applications to an ever-increasing variety of structural and conformational problems to chemistry and biochemistry. The book gives a very clear and integrated account of all these developments. It covers theory, experimental practice, and applications in a unified manner. --This text refers to an out of print or unavailable edition of this title.

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