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ject, providing the necessary biochemical and methodological background for exploring lipids and giving a unified and coherent coverage in a single volume of the many facets of this field. It is a comprehensive text offering the reader not only a modern survey of the chemistry and biochemistry of this field but also detailed methodology—from extraction and separation to identification and estimation. The first section of the book deals with the classification of lipids and lipoproteins and their chemical and physical properties. The second deals with methodology starting with theoretical aspects of separation processes and extraction and preliminary purification. Methods for separation by chromatographic and nonchromatographic methods are described in several chapters. Chemical and spectroscopic methods (visible, uv, ir, nmr, mass spectroscopy, and radioisotope methods) for the identification of lipids are discussed. A chapter is devoted to the increasing use of automation for the analysis of lipids in the field of clinical chemistry. The final chapter of the second section gives detailed instructions for two experiments which illustrate most of the techniques. The third section reviews fatty acid metabolism, lipids in cells, ruminant lipids, the clinical and biochemical significance of steroids, the deposition and mobilization of lipids in man, and the overall role of lipids in the energy metabolism of living systems.

NMR: Basic Principles and Progress, Vol 5, Analysis of NMR Spectra. R. A. Hoffman, S. Forsen, and B. Gestblom. 165 pages. Springer-Verlag New York, Inc., 175 Fifth Ave., New York, NY 10010. 1971. \$18.50

This volume is written for those research and industrial chemists who use nmr spectroscopy on a routine basis as a tool rather than as the primary instrument of their research. A brief summary of the basic principles of nmr is given in Part I. After introduction of some basic concepts required for the classification of spin systems and interpretation of their nmr spectra in Part II, the miscellaneous aids for spectral assignments are discussed in Part III. A detailed presentation of quick analysis procedures applicable to the most commonly occurring nmr spectra amenable to analysis follows in Part IV. Quantum mechanical formalism is finally developed in Part V and is supposedly carried far enough to enable the reader to calculate complex nmr spectra. The analysis methods developed in this volume are illustrated with numerous examples of actual spectra.



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