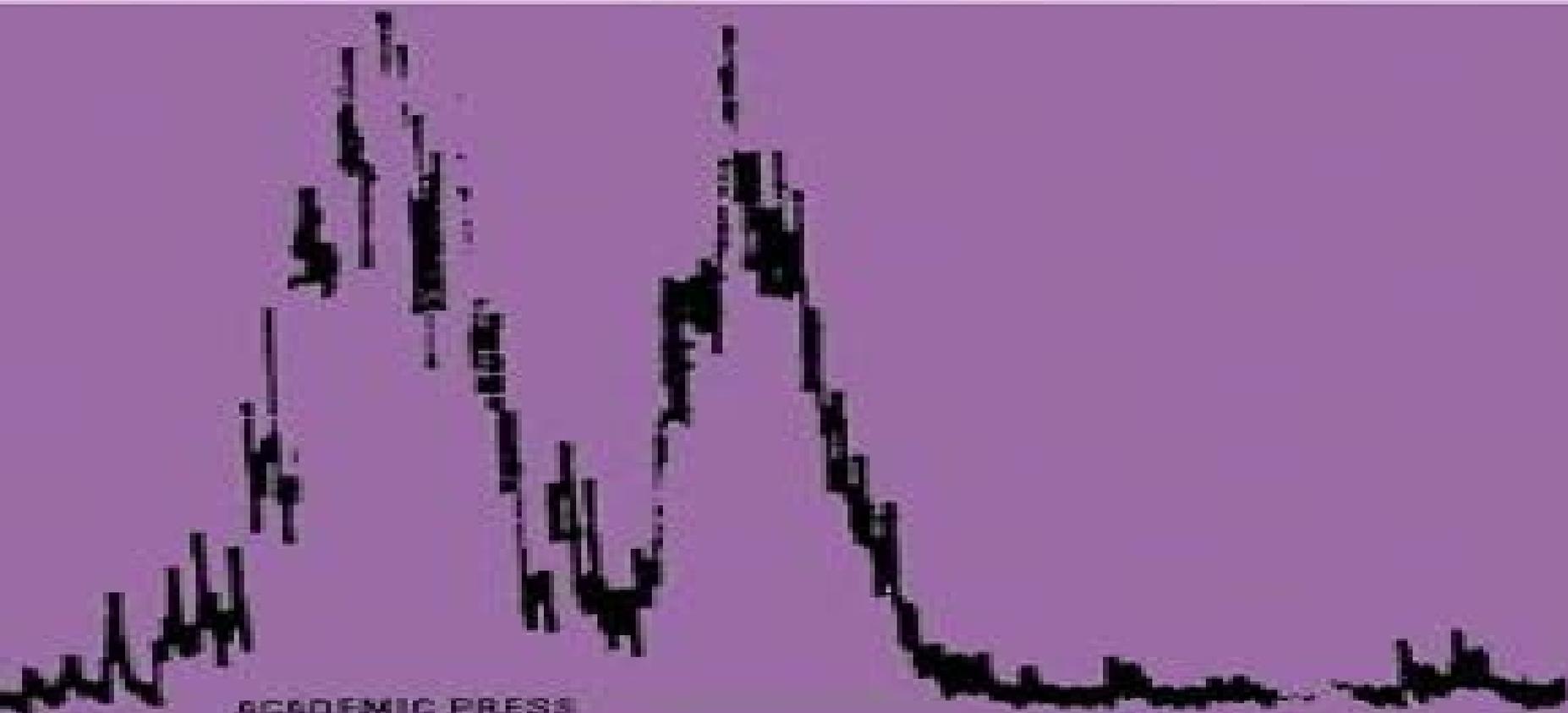


Interpretation of Mass Spectra of Organic Compounds

Mynard C. Hamming and Norman G. Foster



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Interpretation of Mass Spectra of Organic Compounds Mynard Hamming, 2012-12-02 Interpretation of Mass Spectra of Organic Compounds outlines the basic instrumentation sample handling techniques and procedures used in the interpretation of mass spectra of organic compounds The fundamental concepts of ionization fragmentation and rearrangement of ions as found in mass spectra are covered in some detail along with the rectangular array and interpretation maps Computerization of mass spectral data is also discussed This book consists of nine chapters and begins with a historical overview of mass spectrometry and a discussion on some important developments in the field along with a summary of interpretation objectives and methods The following chapters focus on instruments ion sources and detectors recording of the mass spectrum and the instrumental and sample variables affecting the mass spectrum sample introduction systems and fragmentation reactions Correlations as applied to interpretations are also considered with emphasis on applications of the branching rule as well as beta bond and alpha bond cleavages Example interpretations calculations data processing procedures and computer programs are included This monograph is intended for organic chemists biochemists mass spectroscopists technicians managers and others concerned with the whys and wherefores of mass spectrometry

Interpretation of Mass Spectra of Organic Compounds Herbert Budzikiewicz, 1964 **Interpretation of Mass Spectra of Organic Compounds** Carl Djerassi, Dudley H. Williams, 1964 **A Beginner's Guide to Mass Spectral Interpretation** Terrence A. Lee, 1998-02-04 This book is a logical step by step guide to identification of organic compounds by mass spectrometry The book is organized into chapters covering the major types of organic compounds including alcohols acids and esters aldehydes and ketones ethers hydrocarbons halogenated compounds amines and amides and sulfur containing compounds In each chapter the mechanisms of the major fragmentation pathways are discussed with reference to several simple sample compounds By teaching the user to recognize typical fragmentations the book removes the need to search databases often limited of electronic spectra Key features of the book include 200 representative spectra of common organic compounds Functional group approach to mass spectra interpretation Appendix of unknown spectra with step by step guide to identification This book is a must for anyone who needs to identify organic molecules by mass spectrometry but does not need to know the detailed workings of a mass spectrometer **Interpretation of Mass Spectra** Fred W.

McLafferty, Frantisek Turecek, 1993-07-22 Molecular mass spectrometry continues to show an exponential growth with a substantial proportion of its applications still requiring the identification of unknown mass spectra The first edition of this book was published more than 25 years ago when most instruments could measure only a few unknown mass spectra per hour The most important addition to this book in the opinion of the senior author is its co author Frank Turecek He has made especially important contributions to the mechanisms in Chapters 7 9 representing more than one third of the book The extensive revisions by the authors have had the objective of correlating ion dissociation mechanisms on a much broader scale

with emphasis on basic attributes such as ionization energies proton affinities and bond dissociation energies The authors also attempted to show how these mechanisms are applicable to the unimolecular dissociations of ions formed by any ionization method including the exciting variety of new methods for obtaining mass spectra of large molecules

Interpretation of Mass Spectra of Organic Compounds Mynard C. Hamming, Norman G. Foster, 1972 *Interpretation of Mass Spectra of Organic Compounds* *Interpretation of Mass Spectra* Fred W. McLafferty, 1973 *Introduction to Mass Spectrometry* J. Throck Watson, O. David Sparkman, 2007-11-12 Completely revised and updated this text provides an easy to read guide to the concept of mass spectrometry and demonstrates its potential and limitations Written by internationally recognised experts and utilising real life examples of analyses and applications the book presents real cases of qualitative and quantitative applications of mass spectrometry Unlike other mass spectrometry texts this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation along with corresponding strategies for interpretation of data The book concludes with a comprehensive 3000 references This multi disciplined text covers the fundamentals as well as recent advance in this topic providing need to know information for researchers in many disciplines including pharmaceutical environmental and biomedical analysis who are utilizing mass spectrometry

The Encyclopedia of Mass Spectrometry, 2015-12-04 Volume 9 Historical Perspectives Part A The Development of Mass Spectrometry of The Encyclopedia of Mass Spectrometry describes and analyzes the development of many aspects of Mass Spectrometry Beginning with the earliest types of Mass Analyzers Historical Perspectives explores the development of many different forms of analytical processes and methods The work follows various instruments and interfaces to the current state of detectors and computerization It traces the use of Mass Spectrometry across many different disciplines including Organic Chemistry Biochemistry and Proteomics Environmental Mass Spectrometry Forensic Science Imaging Medical Monitoring and Diagnosis Earth and Planetary Sciences and Nuclear Science Finally the book covers the history of manufacturers and societies as well as the professionals who form the Mass Spectrometry community Also available Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry briefly reviews the lives and works of many of the major people who carried out this development Preserves the history and development of Mass Spectrometry for use across scientific fields Written and edited by Mass Spectrometry experts Coordinates with Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry a collection of short biographies on many of the major people who carried out this development

Understanding Mass Spectra R. Martin Smith, 2004-10-06 *Understanding Mass Spectra A Basic Approach Second Edition* combines coverage of the principles underlying mass spectral analysis with clear guidelines on how to apply them in a laboratory setting Completely revised from the first edition an updated and unified approach to mass spectral interpretation emphasizes the application of basic principles from undergraduate organic analytical and physical chemistry courses A detailed overview of theory and instrumentation this useful guide contains step by step descriptions of interpretative

strategies and convenient lists and tables detailing the information needed to solve unknowns Other features include real world case studies and examples skill building problems with clearly explained answers and easy to follow explanations of the important mathematical derivations *The Encyclopedia of Mass Spectrometry* Michael L Gross,R. M Caprioli,2003

Index and Bibliography of Mass Spectrometry Fred W. McLafferty,John Pinzelik,1967 **Systematic Materials Analysis** James Harold Richardson,Ronald V. Peterson,1974 **OMS, Organic Mass Spectrometry** ,1976 **Interpretation of Mass Spectra of Organic Compounds [by] Herbert Budzikiewicz Carl Djerassi [and] Dudley H. Williams** Herbert Budzikiewicz,1964 **Spectrometric Identification of Organic Compounds** Robert M. Silverstein,Francis X. Webster,David J. Kiemle,David L. Bryce,2014-09-29 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 **Bibliography of Mass Spectroscopy Literature for 1971** ,1973

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