

quently avoided at the outset in order to bring out the physical differences between limiting cases. Thus, the separate treatment of double injection into insulators and semiconductors is very welcome. Attention is also paid to the role of contacts and current-flow geometry. The experimental data in the field are well covered, and the breakdown into different materials is very welcome. Of particular interest in connection with double-injection phenomena is the frequent occurrence of current-controlled negative resistance characteristics. The authors give the theory of such a mechanism, brought about by the combination of double-injection and trapping effects, but they also give examples of other mechanisms that can produce a negative resistance. A mild criticism of this part of the book is that rather brief attention is paid to the question of current filament formation, which, according to some authors, always sets in when such a negative-resistance device is switched from its high voltage threshold to its low voltage state.

As a reviewer who is not a specialist in the field but has some familiarity with the subject I found the book very instructive and useful, and can highly recommend it to a broad audience of semiconductor scientists.

K. WEISER

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International Business Machines  
Corporation, Yorktown Heights,  
New York

## Chemical Analysis

Topics in Organic Mass Spectrometry. A. L. BURLINGAME, Ed. Wiley-Interscience, New York, 1970. xii, 472 pp., Illus. \$22.50. Advances in Analytical Chemistry and Instrumentation, vol. 8.

The goal of the editor of this volume is to assess current areas of active research in mass spectrometry, a task that is exceedingly difficult because of the rapid progress that is being made in this field. The latest reference I found in this book was 1968, and one chapter's most recent reference was 1963. Thus, I feel that the editor has not achieved his goal. The time lag is very apparent in the chapter on combined gas-liquid chromatography and mass spectrometry, where the authors claim that in the time-of-flight mass spectrometer differential pumping between the ion source and the drift tube

is not possible and that there are no data available regarding the performance of gas chromatographs coupled to quadrupole mass spectrometers.

On the positive side, the editor has assembled an impressive array of authorities on various aspects of mass spectrometry, and the book achieves a good balance between the principles and the applications of mass spectrometry.

The first chapter is an excellent discussion of the various methods of ionization employed in the study of organic materials. The authors (Becky and Comes) have presented a readable account of the strong and weak points of the various approaches to ionization, particularly field ionization. I had hoped that this chapter would devote more discussion to comparison of field and chemical ionization than to comparison of field and electron-impact ionization. The former pair is employed by many more organic chemists to obtain the same type of information (identity of the molecular-weight or quasi-molecular-weight ion) than the latter pair.

The second chapter, by Ia Lau, provides an excellent discussion of some factors of which many organic chemists using mass spectrometers are unaware, namely, discrimination at the electron multiplier. On page 109 Ia Lau appears to have mixed his usage of the symbols  $\gamma$ , and  $\gamma_m$ . The chapter by Harrison presents an interesting approach to fragment ion structures—the use of ion energetics. I take issue with Harrison on several points, however. First, the statement on page 125 that appearance potentials are identified with enthalpy changes ( $\Delta H$ ) does not make clear to a novice the assumptions employed when appearance potentials are used as heats of reaction. The appearance potential is defined as  $\Delta E$ , and since  $\Delta(PV)$  can be assumed negligible for these gas phase reactions, appearance potentials may be assumed equal to heats of reaction. Also, it is assumed in the use of the tabulated standard heats that  $\Delta H$  is essentially temperature-independent. Many ion sources are operated at elevated temperatures (250°C), but the tabulated  $\Delta H$  values are given for 25°C. Second, Harrison discusses, on page 139, the need to know the path of the ionic reaction for the determination of the ionic heat of formation. When one is using appearance potentials as heats of reaction, only the identity of the original compound and products, both

ionic and neutral, and their heats of formation are required to determine the heat of formation of an ion. The chapters by Bieman, McLafferty, MacFadden and Buttery, and Schnoes and Burlingame give excellent accounts of research in the various areas of organic mass spectrometry and are to be recommended.

This volume is readable, although not too current, and would be of use to a chemist not engaged in mass spectrometry research.

P. E. SALLFELD

Chemistry Division,  
Naval Research Laboratory,  
Washington, D.C.

## Books Received

Advances in Applied Microbiology, Vol. 12. D. Perlman. Academic Press, New York, 1970. xviii, 322 pp., Illus. \$16.50.

Advances in Biology of Skin, Vol. 10. The Dermis. Proceedings of a symposium, Gleneden Beach, Oregon, 1968. William Montagna, J. Peter Bentley, and Richard L. Dobson, Eds. Appleton-Century-Crofts (Meredith), New York, 1970. xviii, 302 pp., Illus. + plates. \$18.50.

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The Behavior Change Process. Oscar G. Mink. Harper and Row, New York, 1970. xii, 212 pp., Illus. Paper, \$3.95. Reprint of the 1968 edition.

The Big Machine. Robert Jungk. Translated from the German edition (1966) by

# Topics In Organic Mass Spectrometry Advances In Analytical Chemistry And Instrumentation Vol 8

**Rachel Sandford**

## **Topics In Organic Mass Spectrometry Advances In Analytical Chemistry And Instrumentation Vol 8:**

*Mass Spectrometry* D. H. Williams, 1973 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**OMS, Organic Mass Spectrometry**, 1972 *Computer methods in organic mass spectrometry*

*applied to automa...* Henk Van't Klooster, 19?? *Mass Spectrometry*, 1973 **Scientific and Technical Books in Print**

, 1972 Introduction to Mass Spectrometry J. Throck Watson, 1985 *Journal of the Chemical Society Chemical Society*

(Great Britain), 1972 The Encyclopedia of Mass Spectrometry Keith A. Nier, Alfred L. Yerger, P. Jane Gale, 2015-07-02

Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry of The Encyclopedia of Mass Spectrometry briefly reviews the lives and works of many of the major people who carried out this development providing insights into the history of mass spectrometry applications through the personal stories of pioneers and innovators in the field The book presents biographies of notable contributors including Nobel Prize winners J J Thomson Francis W Aston Wolfgang Paul John B Fenn and Koichi Tanaka along with other luminaries in the field including Franz Hillenkamp Catherine Clarke Fenselau Alfred O C Nier and many more discussing not only the instruments and their uses but also providing interesting information on the careers characters and life stories of the people who did the work Highlights over 120 innovators in mass spectrometry including several Nobel Prize winners Discusses instrumentation and their uses also providing interesting information on the careers characters and life stories of the people who did the work Offers unique insight into the careers and personalities of luminaries in the field Coordinates with Volume 9 Historical Perspectives Part A The Development of Mass Spectrometry an overview of mass spectrometry development and progress Ideal reference for those interested in a wide variety of topics including analytical chemistry and chemical analysis amongst others 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

**Subject Guide to Books in Print** ,1993    **Photoionization Mass Spectrometric Study of Halogenated Methanes**  
Frank Cheng-Yu Wang,1983    **Library Journal** ,1972    Library Journal Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1974-10 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately

**Gas Chromatography-mass Spectrometry Abstracts** ,1971    **The British National Bibliography** Arthur James Wells, 1972    **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    **The British National Bibliography** ,1968    **New Technical Books** New York Public Library, 1985    **The Encyclopedia of Mass Spectrometry** Michael L. Gross, Wilfried Niessen, R. M. Caprioli, 2006-10-30 Presents information on the biographies of recognized pioneers and innovators in the field of mass

spectrometry Highlights over 120 innovators in mass spectrometry including several Nobel Prize winners Discusses instrumentation and their uses also providing interesting information on the careers characters and life stories of the people who did the work Offers unique insight into the careers and personalities of luminaries in the field     *Books in Print Supplement ,1984*

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