

quality 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.

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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 1965. 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 la 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 la Lau appears to have mixed his usage of the symbols γ_e and γ_{ie} . 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 (ΔH) 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 ΔE , 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 ΔH is essentially temperature-independent. Many ion sources are operated at elevated temperatures (250°C), but the tabulated ΔH 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

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.

F. E. SALLFELD

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Naval Research Laboratory,
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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 (Meredit), New York, 1970. xviii, 302 pp., illus. + plates. \$18.50.

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OMS, Organic Mass Spectrometry, 1972 *Computer methods in organic mass spectrometry applied to automa...* Henk Van't Klooster, 19?? Mass Spectrometry, 1973 **Introduction to Mass Spectrometry** J. Throck Watson, 1985 Mass Spectrometry R A W Johnstone, 2007-10-31 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.

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1965 **Journal of the Chemical Society** Chemical Society (Great Britain), 1972 **The Encyclopedia of Mass Spectrometry** Keith A. Nier, Alfred L. Yergey, 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

Current Catalog National Library of Medicine (U.S.),1970 Includes subject section name section and 1968 1970 technical reports

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](#) ,1991

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Characterization of Solid Surfaces Philip F. Kane, Graydon B. Larrabee, 2013-11-27 Until comparatively recently trace analysis techniques were in general directed toward the determination of impurities in bulk materials Methods were developed for very high relative sensitivity and the values determined were average values Sampling procedures were devised which eliminated the so called sampling error However in the last decade or so a number of developments have shown that for many purposes the distribution of defects within a material can confer important new properties on the material Perhaps the most striking example of this is given by semiconductors a whole new industry has emerged in barely twenty years based entirely on the controlled distribution of

defects within what a few years before would have been regarded as a pure homogeneous crystal Other examples exist in biochemistry metallurgy polymers and of course catalysis In addition to this of the importance of distribution there has also been a recognition growing awareness that physical defects are as important as chemical defects We are of course using the word defect to imply some discontinuity in the material and not in any derogatory sense This broadening of the field of interest led the Materials Advisory Board I to recommend a new definition for the discipline Materials Characterization to encompass this wider concept of the determination of the structure and composition of materials In characterizing a material perhaps the most important special area of interest is the surface

TRAC: Trends in Analytical Chemistry U A Th Brinkman, A. E. Bruno, A. L. Burlingame, 2013-09-17 TRAC Trends in Analytical Chemistry Volume 10 presents relevant topics in global analytical chemistry research This book discusses the potential of flow injection analysis for water quality monitoring Organized into 27 parts encompassing 67 chapters this book begins with an overview of the amount of published information on analytical chemistry research This text then examines the analytical technique in the electrophoretic separations in narrow bore tubes which is capable of rapid high resolution separations of water soluble components in small sample volumes Other chapters consider the application of polynomial and B spline interpolation to the description of cyclic voltammetric features This book discusses as well the methods used to investigate the properties of ceramic high transition temperature superconductors The final chapter deals with the importance of monitoring and protecting the environment based on measurement campaigns This book is a valuable resource for analytical chemists environmental chemists and biochemists Pharmacologists scientists students researcher workers and other practitioners will also find this book useful

Photoionization Mass Spectrometric Study of Halogenated Methanes Frank Cheng-Yu Wang, 1983 **Mass Spectrometry** M E Rose, 2007-10-31 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 **Phytochemistry, 3-Volume Set** Chukwuebuka Egbuna, Jonathan Chinenye Ifemeje, Stanley Udedi

Chidi,Shashank Kumar,Jaya Vikas Kurhekar,Nadia Sharif,2022-05-29 The 3 volume set Phytochemistry covers a wide selection of topics in phytochemistry and provides a wealth of information on the fundamentals new applications methods and modern analytical techniques state of the art approaches and computational techniques With chapters from professional specialists in their fields from around the world the volumes deliver a comprehensive coverage of phytochemistry Phytochemistry is a multidisciplinary field so this book will appeal to students in both upper level students faculty researchers and industry professionals in a number of fields including biological science biochemistry pharmacy food and medicinal chemistry systematic botany and taxonomy ethnobotany conservation biology plant genetic and metabolomics evolutionary sciences and plant pathology **Progress in Medicinal Chemistry** ,2011-09-22 Progress in Medicinal Chemistry *The Encyclopedia of Mass Spectrometry* Michael L. Gross,P.B. Armentrout,R. M. Caprioli,2003-07-25 This multi volume work provides comprehensive coverage of the full range of topics and techniques in mass spectrometry Techniques methods and applications are described in detail including limitations current problems and areas in which the method does not succeed well

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