

TECHNIQUES FOR THE STUDY OF ION-MOLECULE REACTIONS

Edited by James M. Farrar and
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Techniques For The Study Of Ion Molecule Reactions

John H. Moore, Nicholas D. Spencer



Techniques For The Study Of Ion Molecule Reactions:

Techniques for the Study of Ion-Molecule Reactions James M. Farrar, William H. Saunders, 1988-08-12 The first comprehensive collection of all the major techniques used to study gas phase interactions is presented in this volume With complete coverage of what a given technique can accomplish its advantages and disadvantages the book is designed to teach advanced students and researchers entering the field how to investigate a broad range of topics Included is coverage of traditional topics such as ion cyclotron resonance as well as more recent innovations including Fourier transform mass spectrometry and ionic cluster studies Several diagrams of instrumentation and examples of experimental data are also provided

Ion-Molecule Reactions J. Franklin, 2012-12-06 After a few faint stirrings of interest in ion molecule reactions during the early days of mass spectrometry the subject was almost completely neglected for many years There was a renaissance of interest in the subject following pioneering experiments by Tal roze in Russia and independently by Steven son and Schissler and Field Franklin and Lampe in this country Since that time interest in the subject has continued to grow and the number of papers published to expand almost exponentially during the past 15 years The result is a body of literature that is now almost beyond any single individual s capacity for encompassing in his reading and research activities Thus it seemed timely to prepare a book giving in some detail a comprehensive review of the field Ideally such a book would be written by one or possibly two authors Unfortunately the sheer bulk and variety of the studies of ion molecule reactions has made it impractical for a single person to prepare a book on the subject in a time that would permit it to be issued before the material covered was obsolete Consequently the only practical although surely not the ideal solution is to issue a multiauthor volume The present book represents our best efforts to accomplish this goal We have secured from 18 authors material representing the most advanced work in the field and the resulting compilation is presented herein

Ion-Molecule Reactions J. L. Franklin, 2012-12-06 Of Volume 2 8 Flowing Afterglow Studies 1 Introduction 2 Studies Bearing on Intermediate Complex Formation in Thermal Energy Collisions 2 1 Temperature Dependence of Slow Ion Molecule Reactions 2 2 Three Body Reaction Rate Constants 2 3 Rotational Excitation in Ion Neutral Reactions 2 4 Miscellaneous Considerations of Intermediate Complex Processes 3 Studies Bearing on Negative Ion Resonance Formation 4 Studies Bearing on Energetics 5 Conclusions References 9 Ion Cyclotron Resonance Spectrometry 1 Introduction 1 1 General Characteristics 2 Theoretical

Ion/Molecule Attachment Reactions: Mass Spectrometry Toshihiro Fujii, 2015-08-03 This book explores the mechanism of alkali metal ion molecule association reaction surveys the instrumental basis to study its kinetic and describes the instrumentation to the measurement of alkali metal ion affinities The applications of the ion complexation mechanism in the condensed phase in reaction to direct analysis MS are also covered Other topics include mechanism and reaction rate experimental and theoretical ion affinities applications of ion attachment reactions IAR to mass spectrometry such as alkali ion CIMS ion attachment MS and cationization mass spectrometry of ESI FAB FD LD MALDI and SIMS and topics of IAR

based direct analysis mass spectrometry Kinetics of Ion-Molecule Reactions Pierre J. Ausloos, 2012-12-06 The investigation of the elementary reactions of reactive intermediate species began about half a century ago with the advent of free radical kinetics as an active area of chemical research In spite of the relatively greater ease of detection of a species carrying an electrical charge and the fact that organic chemists had for decades postulated mechanisms involving ionic intermediates the systematic study of the elementary reactions of ions was delayed for more than twenty years after the first beginnings of free radical kinetics Even at this writing in 1978 the word kinetics is considered by many chemists to be synonymous with kinetics of neutral species Yet in spite of the relatively late start and separation from the mainstream of kinetics the field of ion physics and chemistry is flourishing and growing at an ever faster pace Instrumentalists devise ever more sophisticated apparatuses with capabilities of delving into nearly every aspect of the interactions between ions and molecules Even satellites orbiting the earth are now being used effectively to determine rate coefficients of ionospheric ion neutral reactions some of which can not as yet be measured in the laboratory Molecular Scattering K. P. Lawley, 2009-09-08 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics **Molecular Physics** Dudley Williams, 2013-09-24 Methods of Experimental Physics Volume 3 Part B Molecular Physics Second Edition presents the basic principles of electron spin resonance spectrometers and the electron spin resonance spectroscopy This four chapter text addresses the concept of thermal equilibrium and relaxation Some of the topics covered in the book are the features of nuclear quadrupole resonance spectrometers basic principles of radio frequency spectrometers computer methods in magnetic resonance components of electron spin resonance spectrometer systems and the resonance condition Other chapters deal with the ionization potential of free radicals the electron affinities by mass spectrometric methods and the experimental methods for determining appearance potentials The discussion then shifts to the theory of the incoherent neutron scattering and its application to molecular dynamics The final chapter is devoted to the spectrometer operation and design The book can provide useful information to chemists physicists students and researchers *Advances in Mass Spectrometry, Volume 12* P.G. Kistemaker, N.M.M. Nibbering, 2012-12-02 These proceedings containing the texts of the invited lectures cover all aspects of mass spectrometry including theory fundamental studies applications and instrumentation Emphasis is placed on recent developments A complete listing of the posters is included **Ion-molecule Reactions** Earl Wadsworth McDaniel, 1970 *Encyclopedia of Chemical Physics and Physical Chemistry* John H. Moore, Nicholas D. Spencer, 2023-07-03 The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The

encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections FUNDAMENTALS the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text METHODS the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials APPLICATIONS specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

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