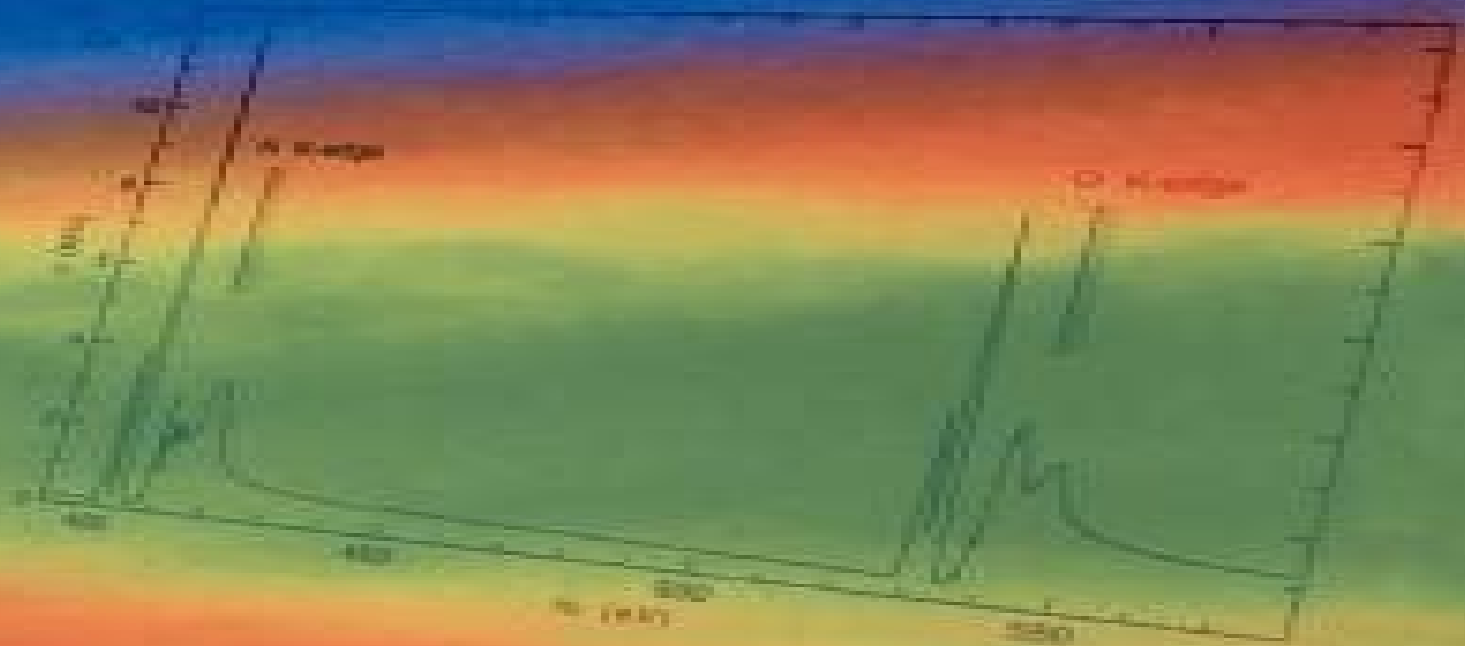


Atomic and Molecular Photoabsorption

ABSOLUTE TOTAL CROSS SECTIONS

Joseph Berkowitz



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Atomic and Molecular Photoabsorption Joseph Berkowitz, 2001-11-26 Atomic and Molecular Photoabsorption Volume 1 describes and catalogs available spectral information relevant to how common gases interact with sunlight and other sources of electromagnetic radiation such as x rays flames and plasmas Photoabsorption is light s reduction in intensity and force when it passes through a column of gas or liquid This book also includes a large number of data tables and figures that are invaluable to researchers because they help them select exactly which wavelengths to use in their experiments The further distinguishing aspect of this book is its synthesis across a broad spectrum of wavelengths and compilation of data for a large number of atoms and molecules

Atomic and Molecular Photoabsorption Joseph Berkowitz, 2015-03-27 Atomic and Molecular Photoabsorption Partial Cross Sections is a companion work to Joseph Berkowitz s earlier work Atomic and Molecular Photoabsorption Absolute Total Cross Sections published with Academic Press in 2002 In this work Joseph Berkowitz selected the best absolute partial cross sections for the same species as included in the companion work A contrast however is that photoabsorption measurements being of order 10^{-18} do not require the most intense light sources whereas acquiring data on the products of light interactions with gaseous matter ions electrons various coincidence measurements has benefited significantly with the arrival of second and third generation synchrotrons The newer devices have also extended the energy range of the light sources to include the K shells of the species discussed here The newer light sources encouraged experimentalists to develop improved instrumentation Thus the determination of partial cross sections continues to be an active field with more recent results in some cases superseding earlier ones Where the accuracy of the absolute partial cross sections is deemed sufficient less than five percent numerical tables are included in this new work In other cases the available data are presented graphically Includes data on atoms diatomic molecules triatomic molecules and polyatomic molecules Written by world leading pioneer in the field of photoionization mass spectrometry Very clear presentation of the useful quantitative information in both tables and graphs

First International Conference on Laboratory Research for Planetary Atmospheres Kenneth Fox, 1990 *Photoionization and Photo-Induced Processes in Mass Spectrometry* Ralf Zimmermann, Luke Hanley, 2021-07-06 Provides comprehensive coverage of laser induced ionization processes for mass spectrometry analysis Drawing on the expertise of the leading academic and industrial research groups involved in the development of photoionization methods for mass spectrometry this reference for analytical scientists covers both the theory and current applications of photo induced ionization processes It places widely used techniques such as MALDI side by side with more specialist approaches such as REMPI and RIMS and discusses leading edge developments in ultrashort laser pulse desorption to give readers a complete picture of the state of the technology Photoionization and Photo Induced Processes in Mass Spectrometry Fundamentals and Applications starts with a complete overview of the fundamentals of the technique covering the basics of the gas phase ionization as well as those of laser desorption and

ablation pulse photoionization and single particle ionization Numerous application examples from different analytical fields are described that showcase the power and the wide scope of photo ionization in mass spectrometry The first general reference book on photoionization techniques for mass spectrometry Examines technologies and applications of gas phase resonance enhanced multiphoton ionization mass spectrometry REMPI MS and gas phase resonance ionization mass spectrometry RIMS Provides complete coverage of popular techniques like MALDI Discusses the current and potential applications of each technology focusing on process and environmental analysis Photoionization and Photo Induced Processes in Mass Spectrometry Fundamentals and Applications is an excellent book for spectroscopists analytical chemists photochemists physical chemists and laser specialists *Two Studies in Gas-Phase Ion Spectroscopy* Matthew J. Simpson, 2011-10-15 In this thesis Matthew Simpson reports two areas of work in gas ion spectroscopy each investigation in itself worthy of a PhD The first study uses tunable vacuum ultraviolet radiation from a synchrotron to identify negative ions from twenty four photoexcited polyatomic molecules in the gas phase From these experiments Matthew collects a vast amount of data and summarises and reviews ion pair formation from polyatomic molecules The second study is on selected ion flow tube mass spectrometry Matthew investigates the reactions of cations and anions with ethene monofluoroethene 1,1-difluoroethene and tetrafluoroethene In this study Matthew tries to explain why certain products are formed preferentially over other products at a microscopic level of understanding The data recorded in this thesis form the most comprehensive collection of information about anion formation and are the basis of a review and numerous articles in specialist journals

Physics Division Annual Report Argonne National Laboratory. Physics Division, 2003 *Macroscopic Matter Wave Interferometry* Stefan Nimmrichter, 2014-06-10 Matter wave interferometry is a promising and successful way to explore truly macroscopic quantum phenomena and probe the validity of quantum theory at the borderline to the classic world Indeed we may soon witness quantum superpositions with nano to micrometer sized objects Yet venturing deeper into the macroscopic domain is not only an experimental but also a theoretical endeavour new interferometers must be conceived sources of noise and decoherence identified size effects understood and possible modifications of the theory taken into account This thesis provides the theoretical background to recent advances in molecule and nanoparticle interferometry In addition it contains a physical and objective method to assess the degree of macroscopicity of such experiments ranking them among other macroscopic quantum superposition phenomena

Charged Particle and Photon Interactions with Matter A. Mozumder, Yoshihiko Hatano, 2003-11-14 Charged Particle and Photon Interactions with Matter offers in depth perspectives on phenomena of ionization and excitation induced by charged particle and photon interactions with matter in vivo and in vitro This reference probes concepts not only in radiation and photochemistry but also in radiation physics radiation biochemistry and radiatio **Particle Penetration and Radiation Effects** Peter Sigmund, 2006-05-26 Drawing on the author's forty plus years of experience as a researcher in the interaction of charged particles with matter this book

emphasizes the theoretical description of fundamental phenomena Special attention is given to classic topics such as Rutherford scattering the theory of particle stopping the statistical description of energy loss and multiple scattering and numerous more recent developments Particle Penetration and Radiation Effects Volume 2 Peter Sigmund,2014-05-29 This book represents volume 2 of a 3 volume monograph on Particle Penetration and Radiation Effects While volume 1 addressed the basic theory of scattering and stopping of swift point charges i e protons antiprotons and alpha particles the present volume focuses on ions heavier than helium as well as molecules and clusters over an energy range from a few keV u to a few hundred MeV u The book addresses the foundations in atomic collision physics of a wide variety of application areas within materials and surface science and engineering micro and nano science and technology radiation medicine and biology as well as nuclear and particle physics Problems have been added to all chapters This should make the book useful for both self study and advanced university courses An effort has been made to establish a unified notation throughout the monograph

Stopping of Heavy Ions Peter Sigmund,2004-07-09 This book offers a concise presentation of theoretical concepts characterizing and quantifying the slowing down of swift heavy ions in matter Although the penetration of charged particles through matter has been studied for almost a hundred years the quantitative theory for swift penetrating ions heavier than helium has been developed mainly during the past decade and is still progressing rapidly The book addresses scientists and engineers working at accelerators with an interest in materials analysis and modification medical diagnostics and therapy mass spectrometry and radiation damage as well as atomic and nuclear physicists Although not a textbook this monograph represents a unique source of state of the art information that is useful to a university teacher in any course involving the interaction of charged particles with matter **Relativistic Effects in Interatomic Ionization Processes and**

Formation of Antimatter Ions in Interatomic Attachment Reactions Andreas Jacob,2024-03-28 Interatomic energy transfer phenomena caused by efficient long range electron correlations are among the most studied processes in atomic physics today They can provide important insights into the interaction dynamics of single atomic species with their environment in more complex systems Part I of this book covers fundamental aspects of two interatomic ionization processes relying on the efficient transfer of electronic energy via long range electron correlations between two spatially well separated atomic species with an emphasis on the influence of relativistic effects on ionization Part II of this book deals with an application of interatomic energy transfer in antimatter physics investigating attachment mechanisms for the production of substantial amounts of the positive ion of antihydrogen in view of experiments on the free fall of antihydrogen currently planned at CERN *Comparative Aeronomy* Andrew F. Nagy,A. Balogh,Thomas E. Cravens,Michael Mendillo,Ingo Müller-Wodarg,2008-12-31 Andrew F Nagy Originally published in the journal Space Science Reviews Volume 139 Nos 1 4 DOI 10 1007 s11214 008 9353 0 Springer Science Business Media B V 2008 Keywords Aeronomy The term aeronomy has been used widely for many decades but its origin has mostly been lost over the years It was introduced by Sydney Chapman

in a Letter to the Editor entitled Some Thoughts on Nomenclature in Nature in 1946 Chapman 1946 In that letter he suggested that aeronomy should replace meteorology writing that the word meteor is now irrelevant and misleading This proposal was apparently not received with much support so in a short note in Weather in 1953 Chapman 1953 wrote If despite its obvious convenience of brevity in itself and its derivatives it does not commend itself to aeronomers I think there is a case for modifying my proposal so that instead of the word being used to signify the study of the atmosphere in general it should be adopted with the restricted sense of the science of the upper atmosphere for which there is no convenient short word In a chapter he wrote in a 1960 book Chapman 1960 he give his nal and de nitive de nition by stating that Aeronomy is the science of the upper region of the atmosphere where dissociation and ionization are important The Workshop on Comparative Aeronomy was held at ISSI during the week of June 25 29 2007 *Energy Research Abstracts* ,1990

Charged Particle and Photon Interactions with Matter Yoshihiko Hatano,Yosuke Katsumura,A.

Mozumder,2010-12-13 Building on Mozumder s and Hatano s Charged Particle and Photon Interactions with Matter Chemical Physicochemical and Biological Consequences with Applications CRC Press 2004 Charged Particle and Photon Interactions with Matter Recent Advances Applications and Interfaces expands upon the scientific contents of the previous volume by cover *Catalog of National Bureau of Standards Publications, 1966-1976* United States. National Bureau of Standards,1978 **Physical and Chemical Mechanisms in Molecular Radiation Biology** William A. Glass,Matesh N. Varma,2012-12-06 The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization of the nuclear energy option In addition this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program To achieve the above stated objective the U S Department of Energy DOE and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago A critical component of this program is the Radiological and Chemical Physics Program RCPP When the RCPP was established there was very little basic knowledge in the fields of physics chemistry and biology that could be directly applied to understanding the effects of radiation on biological systems Progress of the RCPP program in its first 15 years was documented in the proceedings of a conference held at Airlie Virginia in 1972 At this conference it was clear that considerable progr ess had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects During this period of time most physical knowledge was obtained for the gas phase because the technology and instru mentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials **Nuclear Science Abstracts** ,1976 **Bibliography of Low Energy Electron and Photon Cross Section Data, (January 1975 Through December 1977)** J. W. Gallagher,John R. Rumble,Earl Claude Beaty,1979 NBS Technical Note ,1970

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