

# ELECTRONIC AND IONIC IMPACT PHENOMENA

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# Electronic Ionic Impact Phenomena 1st Edition

**Harrie Stewart Wilson Massey, Eric H.  
S. Burhop**



## **Electronic Ionic Impact Phenomena 1st Edition:**

ELECTRONIC AND IONIC IMPACT PHENOMENA. HSW. MASSEY, 1952      Advances in Atomic and Molecular Physics, 1980-02-01 Advances in Atomic and Molecular Physics      **Electronic and Ionic Impact Phenomena** E. ... H. S. Burhop, Harrie Stewart Wilson Massey (Physiker, Astronom, Australien, Grossbritannien), 1952      **Mesospheric Models and Related Experiments** G. Fiocco, 2012-12-06 In July 1967 ESRIN and ESLAB the two ESRO laboratories primarily concerned with basic research held a joint symposium on Satellite and Rocket Measurements of Corpuscular Radiation from Outer Space This was followed in September 1968 by a second symposium Low Frequency Waves and Irregularities in the Ionosphere and in September 1969 by a third Interrelated Satellite Observations Related to Solar Events A fourth symposium on upper atmospheric models and related experiments took place in Frascati 6-10 July 1970 The main aim of the symposium was to assess current experimental work both field and laboratory related to mesospheric structure and composition in the light of theoretical work on atmospheric models and atomic and molecular processes To foster an interdisciplinary approach the meeting brought together approximately 50 scientists working with different techniques but having a common interest in the interpretation of mesospheric phenomena Recent work such as that presented at the symposium has deepened our knowledge of upper atmospheric composition and increased our understanding of upper atmospheric temperature and dynamics In particular it has shown that the concentration of minor species in the atmosphere is somewhat different than expected Theoretical models have not yet considered many of the minor constituents and have generally not included dynamical effects It is now time to reconsider these models and elaborate them in the light of recent knowledge      **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      **Collision Spectroscopy** R. Cooks, 2012-12-06 R G Cooks This introduction has three

purposes a to summarize some of the chief features of energy spectrometry of ions and to sketch in a little of the background to this subject b to present some simple facts about collision processes which one skilled in say mass spectrometry but innocent of any knowledge of bimolecular collisions might find of value and c to indicate the scope and content of the volume

1 The Subject This book takes as its subject ion molecule and ion atom reactions occurring at high energies It emphasizes the study of inelastic reactions at high energy through measurements of translational energy The investigation of these reactions using other procedures has been important in the cases of the simpler systems In particular the emitted radiation has been investigated and this subject is therefore discussed where appropriate For more complex species however there is little information available other than from energy spectra The defining characteristic of the energy range of interest is that momentum transfer to the neutral target is negligible for small scattering angles The result of this apparently bland condition is a welcome simplicity in the interpretation of the results of what appears to be developing into a R G Cooks Department of Chemistry Purdue University West Lafayette Indiana 47907

2 Introduction unique form of spectroscopy The names ion kinetic energy spectrometry translational energy spectrometry collision spectroscopy and energy loss spectrometry have all been used to describe this subject

d Section 5 *Relativistic Point Dynamics* Henri Arzeliers, 2016-10-19 Relativistic Point Dynamics focuses on the principles of relativistic dynamics The book first discusses fundamental equations The impulse postulate and its consequences and the kinetic energy theorem are then explained The text also touches on the transformation of main quantities and relativistic decomposition of force and then discusses fields of force derivable from scalar potentials fields of force derivable from a scalar potential and a vector potential and equations of motion Other concerns include equations for fields transfer of the equations obtained by variational methods into the Minkowski continuum and analysis of the concepts for force and mass The text also describes the interaction between two electric charges The selection also discusses the reconsideration of the equivalence of mass and energy fundamental postulates and general theorem and relativistic rockets The text also focuses on elastic collisions between two corpuscles inelastic collisions and the Compton effect The book is a vital source of data for readers wanting to explore relativistic dynamics

**Electronic and Ionic Impact Phenomena** Harrie Stewart Wilson Massey, Eric H. S. Burhop, 1965 **Technical Publications**

**Announcements with Indexes** United States. National Aeronautics and Space Administration, 1962 **Riso Report**, 1960

Processes for the Production and Removal of Electrons and Negative Ions in Gases S. M. Silverman, 1959 **Literature**

**1971, Part 2** S. Böhme, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, U. Scheffer, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every

effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 6 contains literature published in 1971 and received before March 15 1972 some older literature which was received late and which is not recorded in earlier volumes is also included

**Nuclear Science Abstracts**, 1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE's predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

Proceedings of the Symposium on the Astronomy and Physics of Meteors Held at Smithsonian Astrophysical Observatory Cambridge, Massachusetts 28 August - 1 September 1961, 1962

Scientific and Technical Aerospace Reports, 1972

Advances in Radiation Biology Leroy G. Augenstein, Ronald Mason, Henry Quastler, 2013-10-22 Advances in Radiation Biology Volume 1 provides an overview of the state of knowledge in radiation biology The book contains six chapters and opens with a review some of the recent work bearing on the nature of the radicals produced in water and on the rates of some of the reactions of the radicals It also comments on some of the applications of the radical model which have been made These are followed by a chapter on the process of photosynthesis covering light absorption and emission by pigments electromagnetic energy transfer among and between pigment molecules and the physical transfer and migration of electronic charge Subsequent chapters deal with the effects of tritium irradiation on cells the effects of small doses of ionizing radiation the radiation chemical reactions of the amino acids and the nature of temperature effects on enzyme inactivation by various radiations

**Ninth Symposium (International) on Combustion** Sam Stuart, 2013-09-11 Ninth Symposium International on Combustion covers the proceedings of the Ninth Symposium International on Combustion held at Cornell University in Ithaca New York on August 27 to September 1 1962 under the auspices of the Combustion Institute The book focuses on the processes and reactions involved in combustion The selection first offers information on flame strength of propane oxygen flames at low pressures in turbulent flow and mixing and flow in ducted turbulent jets Topics include radial profile of the jetting velocity radial growth of the jet and mixing zones of a ducted jet The text then elaborates on turbulent flame studies in two dimensional open burners turbulent mass transfer and rates of combustion in confined turbulent flames and flame stabilization in a boundary layer The publication examines the theoretical study of properties of laminar steady state flames as a function of properties of their chemical components and spectra of

alkali metal organic halide flames The text then takes a look at the thermal radiation theory for plane flame propagation in coal dust clouds flame characteristics of the diborane hydrazine system and studies of the combustion of dimethyl hydrazine and related compounds The selection is a dependable reference for readers interested in the processes and reactions involved in combustion     The Nonlinear Interaction of a Radio-frequency Wave with an Inhomogeneous Plasma Slab Robert J. Papa, Carl T. Case, 1965     *Proceedings* ,1962     *A Selected Listing of NASA Scientific and Technical Reports for ...* United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1964

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