

# Atomic and Molecular Beams

Production and Collimation



C B Lucas



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# Atomic And Molecular Beams Production And Collimation

**Sergio Carrà**



## **Atomic And Molecular Beams Production And Collimation:**

*Atomic and Molecular Beams* Cyril Bernard Lucas, 2013-12-13 Atomic and molecular beams are employed in physics and chemistry experiments and to a lesser extent in the biological sciences These beams enable atoms to be studied under collision free conditions and allow the study of their interaction with other atoms charged particles radiation and surfaces Atomic and Molecular Beams Production and Col

**Atomic and Molecular Beams** Cyril Bernard Lucas, 2013-12-13 Atomic and molecular beams are employed in physics and chemistry experiments and to a lesser extent in the biological sciences These beams enable atoms to be studied under collision free conditions and allow the study of their interaction with other atoms charged particles radiation and surfaces Atomic and Molecular Beams Production and Collimation explores the latest techniques for producing a beam from any substance as well as from the dissociation of hydrogen oxygen nitrogen and the halogens The book not only provides the basic expressions essential to beam design but also offers in depth coverage of Design of ovens and furnaces for atomic beam production Creation of atomic beams that require higher evaporation temperatures Theory of beam formation including the Clausing equation and the transmission probability Construction of collimating arrays in metals plastics glass and other materials Optimization of the design of atomic beam collimators While many review articles and books discuss the application of atomic beams few give technical details of their production Focusing on practical application in the laboratory the author critically reviews over 800 references to compare the atomic and molecular beam formation theories with actual experiments Atomic and Molecular Beams Production and Collimation is a comprehensive source of material for experimentalists facing the design of any atomic or molecular beam and theoreticians wishing to extend the theory

Atomic, Molecular, and Optical Physics: Atoms and Molecules, 1996-05-16 Combined with the other two volumes this text is a comprehensive treatment of the key experimental methods of atomic molecular and optical physics as well as an excellent experimental handbook for the field Thewide availability of tunable lasers in the past several years has revolutionized the field and lead to the introduction of many new experimental methods that are covered in these volumes Traditional methods are also included to ensure that the volumes will be a complete reference source for the field

Molecular Beams, Volume 10 Ilya Prigogine, Stuart A. Rice, 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

**Nuclear Science Abstracts**, 1973

**Time-of-Flight Mass Spectrometry and its Applications** E.W. Schlag, 2012-12-02 The resurgence of time of flight mass spectrometry TOF MS has had its origin in the simplicity of construction and application of such instruments together with the high transmission and the great increase in resolution that has been achieved The instrument lends itself naturally to a coupling with pulsed

laser sources though this is not a prerequisite It also affords a time resolution far beyond that traditionally achieved with mass spectrometric rapid scan techniques a recent example being the real time analysis of a multi component mixture from an automobile exhaust Furthermore the mass range appears to be extremely large mass up to 500 kDa and beyond what is being readily measured in the laboratory today The present set of contributions attempts to give a survey of current applications from many of the active groups in the field A variety of new applications are considered which are no doubt just the beginning of large new areas of application By presenting this work in book form it is hoped that it will be of help to the many groups intending to initiate work in this rapidly expanding new area of mass spectrometry **Analysis of**

**Environmental Radionuclides** Pavel P. Povinec, 2011-07-28 The purpose of this book is to present a state of art summary of current knowledge of methods of assessment of radionuclides in the terrestrial and marine environments It cover the traditional methods of radioactivity measurements such as radiometrics techniques but also recent developments in the mass spectrometry sector The book starts with a short preface introducing the subject of the book summarising content and philosophy of the book as well as the most important historical achievements The scientific topics are introduced by description of sampling methods optimisation of sampling sites and sampling frequency The recent developments in radiochemical separation methods using chromatography resins for the treatment of actinides transuranics and other groups of radioelements are also described No other book is available covering all aspects of environmental radioactivity measurements although remarkable progress has been made in detection techniques over the last ten years At present the new methods enable to carry out investigations which were not possible before either because of lack of sensitivity or because of the fact that they required too large samples **Atom and Ion Sources** László Vályi, 1977 **Scientific and**

**Technical Aerospace Reports** , 1984 **The Chemical Consequences of Nuclear Spin** P. J. Wheatley, 1970 Laser Spectroscopy 2 Wolfgang Demtröder, 2015-01-07 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e g ultrafast lasers atto and femto second lasers coherent matter waves Doppler free Fourier spectroscopy interference spectroscopy quantum optics and gravitational waves and still more applications in chemical analysis medical diagnostics and engineering Understanding Nuclear Physics Nikit Deshmukh, Nirav Joshi, 2023-03-01 This book provides a unique approach to understand the Nuclear Physics especially from the experimental end The highlight of this book is that special care has been taken to provide more experimental information considering real experimental data which has been published in several journals Special experimental focus is given to methodologies involving offline gamma counting and online particle detection The book provides information about recent developments in accelerators overview of the detectors and concise information of associated electronics data acquisition systems and computers for data analysis **Bibliography of Mass Spectroscopy**

**Literature for 1971** ,1973     *Molecular Beams* John Ross,1966 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     **Space Simulation** ,1972 Space simulation conference     **Atomic, Molecular, and Optical Physics** F. B. Dunning,Randall G. Hulet,1995     **FUNDAMENTALS OF CHEMISTRY - Volume I** Sergio Carrà,2009-05-05 Fundamentals of Chemistry theme in two volumes is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme is organized into six different topics which represent the main scientific areas History and Fundamentals of Chemistry Chemical Experimentation and Instrumentation Theoretical Approach to Chemistry Chemical Thermodynamics Rates of Chemical Reactions Chemical Synthesis of Substances These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs     **State-of-the-art literature survey of methods for production of molecular beams in the energy range of 1-1000 ev** Richard Hall Austin,1962     Soviet Physics ,1986     *Physics of Atomic Collisions* J. B. Hasted,1972

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Atomic And Molecular Beams Production And Collimation** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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