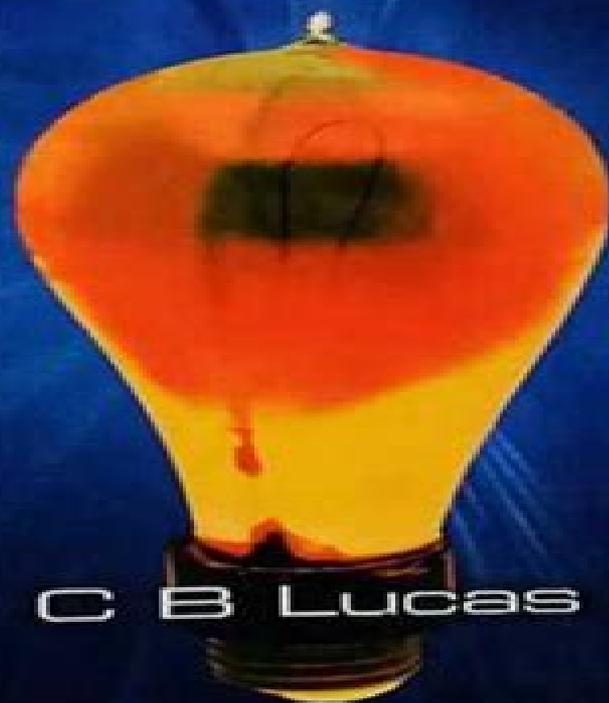


Atomic and  
Molecular Beams  
Production and Collimation



C B Lucas



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# Atomic And Molecular Beams Production And Collimation

**H Kauffman**



## **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 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 and Molecular Beams** Roger Campargue, 2012-12-06 Atomic and Molecular Beams covers the state of the art in this field both theoretically and experimentally With many contributions from leading researchers including several Nobel laureates this book will serve as a long lasting source of reference on all aspects of fundamental research into or using atomic and molecular beams The topics covered in this volume include amongst others laser cooling and manipulation of atoms and molecules alignment relaxation and condensation in supersonic jets photodissociation spectroscopy and state imaging in beams dynamics of elementary molecular collisions production and properties of clusters and nanoparticles and beam interactions with surfaces Nuclear Science Abstracts ,1973-07 **Atom and Ion Sources** László Vályi, 1977

**The Chemical Consequences of Nuclear Spin** P. J. Wheatley, 1970 **The Chemical Physics of Atomic and Molecular Clusters** Giacinto Scoles, Società italiana di fisica, 1990 This volume of the Enrico Fermi Summer School proceedings is concerned with the chemical physics of atomic and molecular clusters of medium and large size which are defined as clusters too large to yield rotationally resolved spectra In practice this means from trimers and tetramers up By limiting the field a separation is made between the study of systems of well known structures for which the position of each of their fragments is well known from systems that because of their dynamical or fluid status or because of the too large number of components have to be studied with methods which are intrinsically more statistic **Atom, Molecule, and Cluster Beams I** Hans Pauly, 2012-12-06 A consistent up to date description of the extremely manifold and varied experimental techniques which nowadays enable work with neutral particles Th book lays the physical foundations of the

various experimental techniques which utilize methods from most fields in physics      **Physics of Atomic Collisions** J. B. Hasted,1972      U.S. Government Research & Development Reports ,1967      **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      **Atomic and Electron Physics: Atomic Interactions** Benjamin Bederson,1968      **Physics Briefs** ,1992      **Inelastic molecular collisions** John Edward Scott (Jr),1962      **The Physics of Electronic and Atomic Collisions** L.J. Dube,B.A. Mitchell,W. McConkey,C.E. Brion,2000-04-14 Annotation Contains the written versions of the invited talks presented at ICPEAC 19 3 plenary lectures 9 review talks 47 progress reports and 14 selected topics The papers address photon electron ionization electron atom electron molecule theory experiment electron ion positron and muon ion atom theory experiment charge transfer ion molecule Rydberg ultracold and ion ion collisions photoionization collisions with surfaces and clusters and novel techniques No index Annotation c by Book News Inc Portland Or      *INIS Atomindex* ,1995      *Scientific and Technical Aerospace Reports* ,1974      **Bibliography of Scientific and Industrial Reports** ,1967-10      *Government Reports Announcements & Index* ,1990-06      Methods of Experimental Physics ,1968      International Aerospace Abstracts ,1997

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