



Atomic and Molecular Beams: Production and Collimation

Cyril Bernard Lucas

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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.

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