

matter and in authorship, with the ICPEAC invited lectures.

The ICPEAC volume also addresses atom-atom and ion-atom interactions, and it contains a substantial account of recent studies of the inner shell phenomena that occur in ion-atom collisions. In such collisions, inner shell vacancies are formed that are accompanied by the multiple ionization of the electrons in other shells and a great many unusual atomic states are created that decay with different lifetimes, different energies, and different fluorescent yields. Continuous emission in the x-ray region of the spectrum also occurs during ion-atom collisions; it can be attributed to transitions between different molecular orbitals formed by the temporary molecules, to bremsstrahlung, and to radiative capture of the target electrons in vacancies produced in the ion projectiles. The last few years have seen vigorous activity in the investigation of ion-atom collision phenomena, and such activity will surely be maintained. The development of experiments involving the collisions of atomic systems that have very large nuclear charges and the formation of super-heavy molecules holds exciting possibilities, engaging new phenomena in quantum electrodynamics.

Theoretical research has made important contributions to the study of ion-atom collisions, particularly with the recognition that many of the phenomena can be attributed to the temporary formation of a quasimolecule for which a molecular orbital description is appropriate. Elsewhere, theoretical progress appears to have occurred mainly through the extension of existing methods, both to achieve greater accuracy and to deal with more complex atomic systems. It is hard work, made more demanding by the ubiquity and importance of resonances in scattering phenomena. Some interesting attempts have been made to employ a discrete basis representation for use in scattering problems, and some success has been achieved in the description of elastic scattering in simple systems. The problems confronting the generalization of such descriptions to include inelastic scattering and many-electron systems are severe.

The material of atomic physics is significant to many areas of physics, chemistry, and astronomy, and the ICPEAC conferences usually include several presentations that apply the concepts of atomic physics to related fields. In this volume, atomic collisions and fission technology are discussed by Sheldon Datz and atomic physics in the controlled thermonuclear research program

is dealt with by C. F. Barnett. The articles are interesting and valuable in that they draw attention to the relevance of atomic and molecular physics to possible methods of isotope separation and to high-temperature plasma diagnostics. A more comprehensive examination of the relation of atomic physics to the energy program would have been timely.

Despite the fragmentation caused by the large number of articles in the ICPEAC volume, the collection provides a fair description of recent work in electronic and atomic collisions for those prepared to read their way through 900 pages.

ALEXANDER DALGARNO

*Department of Astronomy,
Harvard University,
Cambridge, Massachusetts*

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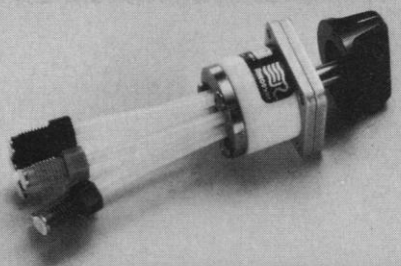
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