

# Topics in Current Physics

## Structure and Collisions of Ions and Atoms

**Editor: I. A. Sellin**

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# Structure Collisions Of Ions Atoms

**I. A. Sellin**

## **Structure Collisions Of Ions Atoms:**

**Structure and Collisions of Ions and Atoms** I.A. Sellin,2012-12-06 The central subject of this volume is the atomic and molecular physics of heavy particles as investigated with charged particle accelerators The natural division between atomic structure and ion atom collision studies and the similar division between the theoretical and experimental branches of these subjects are reflected in a parallel subdivision into corresponding chapters In addition one chapter is devoted to the important interface between atomic and molecular physics with condensed matter physics A principal aim of the present volume is to provide a compact description of a number of current interests and trends within the heavy particle structure and collisions field in a sufficiently general non specialized way that interested scientists who wish to become acquainted with such interests and trends can do so without becoming bogged down in excessive archival detail It is therefore hoped that the book will be of some use to advanced students who seek a general introduction to these subjects Numerous more specialized archival review articles are frequently referred to in each chapter for the benefit of those who seek more detailed knowledge about particular topics discussed The editor wishes to acknowledge the support of two U S government agencies the Office of Naval Research and the National Science Foundation during the preparation of this volume Sincere thanks are due Mrs Betty Thoe for her excellent editorial work on the various manuscripts and Mrs

**Structure and Collisions of Ions and Atoms** I. A. Sellin,1978-03-01

**High-Energy Ion-Atom Collisions** D. Berenyi,G. Hock,1988-01-27 These proceedings give fundamental information on the collision mechanisms of ions and atoms at relatively high energies and on their highly excited atomic states The information derived from such studies can often be applied in other fields such as material analysis dosimetry the study of the upper atmosphere and controlled fusion Phenomena involving the classical ion atom collision fields impact parameter dependences quasimolecular and electron correlation effects coherence phenomena the electron and photon spectroscopy of highly charged projectile and recoil ions the loss and capture of electrons molecular and solid state effects and different aspects of instrumentation are all discussed in this volume

**Spectroscopy and Collisions of Few-electron Ions** M. Ivașcu,Viorica Florescu,Valeriu Zoran,1989

*Physics of Atomic Collisions* J. B. Hasted,1964

*Chemical Dynamics of Ion-atom Collisions* George Francis Schuette,1981

*INIS Atomindex*,1985

*Case Studies in Atomic Collision Physics*,1969

**Heavy-ion Spectroscopy and QED Effects in Atomic Systems**

Ingvar Lindgren,Indrek Martinson,Reinhold Schuch,1993

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*Physics Briefs*,1993

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M. Gibson,Henry H. Teitelbaum,1980

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International Union of Pure and Applied Physics,1972

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,1969

**Bell Telephone System Technical Publications** Bell Telephone Laboratories,1951

**Collective Ion**

**Acceleration** C. L. Olson,U. Schumacher,1979-04

*Energy Research Abstracts* ,1993 Semiannual with semiannual and

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