



Atomic Physics With Heavy Ions

Author : Heinrich Beyer Viatcheslav P Shevelko / **Category**
: Science / **Total Pages** : 396 pages

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Summary : Free atomic physics with heavy ions pdf download - this book is devoted to one of the most active domains of atomic physics- atomic physics of heavy positive ions during the last 30 years this terrain has attracted enormous attention from both experimentalists and theoreticians on the one hand this interest is stimulated by rapid progress in the development of laboratory ion sources storage rings ion traps and methods for ion cooling in many laboratories a considerable number of complex and accurate experiments have been initiated challenging new frontiers highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics ion-surface interaction physics of hollow atoms x-ray lasers x-ray spectroscopy spectrometry of ions in storage rings and ion traps biology and medical therapy on the other hand the new technologies have stimulated elaborate theoretical investigations especially in developing qed theory relativistic many body techniques plasma-kinetic modeling based on the coulomb interactions of highly charged ions with photons and various atomic particles - electrons atoms molecules and ions the idea of assembling this book matured while the editors were writing another book x-ray radiation of highly charged ions by h f beyer h-j kluge and v p shevelko springer berlin heidelberg 1997 covering a broad range of x-ray and other radiative phenomena central to atomic physics with heavy ions

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