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Physics of Highly Charged Ions

By Ratko Janev

Springer Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 235x155x18 mm. This item is printed on demand - Print on Demand Neuware - The physics of highly charged ions has become an essential ingredient of many modern research fields, such as x-ray astronomy and astrophysics, controlled thermonuclear fusion, heavy ion nuclear physics, charged particle accelerator physics, beam-foil spectroscopy, creation of xuv and x-ray lasers, etc. A broad spectrum of phenomena in high-temperature laboratory and astrophysical plasmas, as well as many aspects of their global physical state and behaviour, are directly influenced, and often fully determined, by the structure and collision properties of multiply charged ions. The growth of interest in the physics of highly charged ions, experienced especially in the last ten to fifteen years, has stimulated a dramatic increase in research activity in this field and resulted in numerous significant achievements of both fundamental and practical importance. This book is devoted to the basic aspects of the physics of highly charged ions. Its principal aim is to provide a basis for understanding the structure and spectra of these ions, as well as their interactions with other atomic particles (electrons, ions, atoms and molecules). Particular attention...



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