

atomic, optical, and plasma physics

Pierre Meystre

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Atomic Particles and Atom Systems Boris M. Smirnov, 2018-07-10 This book presents physical units and widely used physical formulas which are given together with conversion factors in various units It includes frequently used atomic spectra and data for atoms ions and molecules as well as potential curves for diatomic molecules and provides numerical

parameters for transport phenomena in gases and plasmas Further the rate constants of a number of processes in atmospheric ionized air have been added to this second edition of the book The numerical data has been selected from the information on atoms atomic systems atomic processes and models for atomic physics in this area and the numerical parameters of atoms ions and atom systems are included in periodical tables of elements *Springer Handbook of Atomic, Molecular, and Optical Physics* Gordon W. F. Drake, 2007-02-05 This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field Its 90 chapters written by about 120 authors all leaders in their respective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook Atom, Molecule, and Cluster Beams II Hans Pauly, 2000-09-27 This book completes the physical foundations and experimental techniques described in volume 1 with an updated review of the accessory equipment indispensable in molecular beam experiments It extends the subject to cluster beams and beams of hyperthermal and subthermal energies As in volume 1 a special effort is made to outline the physical foundations of the various experimental techniques Hence this book is intended not only as a reference standard for researchers in the field but also to bring the flavor of current molecular beam research to advanced undergraduates and graduate students and to enable them to gain a solid background in the field and its technique Laser Physics at Relativistic Intensities A.V. Borovsky, A.L. Galkin, O.B. Shiryayev, T. Auguste, 2013-04-17 One of the major accomplishments of laser technology that took place during the last 15 years is the possibility of generating coherent radiation that can be focused so that its intensity reaches the magnitude of 10^{18} W/cm² Even higher intensities result from nonlinear self focusing of such radiation in matter The unique character of these magnitudes is illustrated by the fact that these intensities are substantially higher than those occurring inside the Sun A range of previously unexplored physical mechanisms come into play as laser pulses interact with matter under the conditions of an extreme concentration of laser energy In particular free electrons of plasma formed by rapid nonlinear ionization of gases and solid targets during the pulse rise time are driven by a laser radiation electric field at velocities comparable to the speed of light and the corresponding relativistic increase in their masses entails a modification of the plasma's optical properties Laser radiation intensities at which the above effect occurs

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