



# Elements Of Atomic Physics

**David C. Peaslee, Hans Mueller**



## Elements Of Atomic Physics:

*Elements of Atomic Physics* David C. Peaslee, Hans Mueller, 1955      *Elements of Atomic Physics* David Chase PEASLEE (and MUELLER (Hans) Professor of Physics, Massachusetts Institute of Technology.), Hans MUELLER (Professor of Physics, Massachusetts Institute of Technology.), 1955      **Elements of Atomic Physics** Nisha Gupta, 2011      **Atomic Structure Theory** Walter R. Johnson, 2007-02-05 This book provides a hands on experience with atomic structure calculations Material covered includes angular momentum methods the central field Schrödinger and Dirac equations Hartree Fock and Dirac Hartree Fock equations multiplet structure hyperfine structure the isotope shift dipole and multipole transitions basic many body perturbation theory configuration interaction and correlation corrections to matrix elements The book also contains numerical methods for solving the Schrödinger and Dirac eigenvalue problems and the Dirac Hartree Fock equations

**Elements of Atomic Physics**, 1955      Elements of atomic physics David Caspar Peaslee, 1965      Elements of Atomic Physics David Chase Peaslee, Hans Mueller (kernfysica), 1955      **Elements of Atomic Physics. Edited by H. Mueller** David C. Peaslee, Hans Mueller, 1961      Elements of Atomic Physics D.C. Peaslee, 1958      **Chaos in Atomic Physics** R. Blümel, W. P. Reinhardt, 1997-07-24 This book provides a coherent introduction to the manifestations of chaos in atoms and molecules      *Elements of Physics* Robert Andrews Millikan, Henry Gordon Gale, 1927      Atomic Physics SN Ghoshal, 2007 the book has been revised to include the postgraduate physics syllabi of Indian Universities in addition to the undergraduate honours syllabi covered in the previous edition Apart from the new addition made in the existing chapters have been added in this edition to deal with the quantum mechanical theories of atomic and molecular structure      **Atomic Physics** C.J. Foot, 2005 This text will thoroughly update the existing literature on atomic physics Intended to accompany an advanced undergraduate course in atomic physics the book will lead the students up to the latest advances and the applications to Bose Einstein Condensation of atoms matter wave interferometry and quantum computing with trapped ions The elementary atomic physics covered in the early chapters should be accessible to undergraduates when they are first introduced to the subject To complement the usual quantum mechanical treatment of atomic structure the book strongly emphasizes the experimental basis of the subject especially in the later chapters It includes ample tutorial material examples illustrations chapter summaries graded problem sets      The Infancy of Atomic Physics Alex Keller, 2013-10-09 This compelling history portrays the human faces and lives behind the beginnings of atomic science from experiments in the 1880s to the era just after the First World War      *The Physics of Atoms and Quanta* Hermann Haken, Hans Christoph Wolf, 2006-05-24 The highly positive affirmation and wide reception that this book continues to receive from professors and students alike is the occasion for this 7th edition Once again we have included a number of valuable suggestions for improvements which we address as appropriate In addition we refer to a number of developments in atomic physics Of these new developments in regard to exotic atoms we mention antihydrogen in particular because fundamental experiments in matter and antimatter can be

expected in the future Furthermore we have inserted a chapter on the behaviour of atoms in strong electrical fields Experiments with corresponding lasers could only recently be realized We thank our Jenaer colleague R Sauerbrey for his contribution of this chapter We have also included a new chapter on the behaviour of the hydrogen atom in strong magnetic fields The results are of profound interest for two very different fields of physics on the one hand according to classical physics one expects chaotic behaviour from Rydberg atoms in magnetic fields that can be created in the laboratory thus an association can be drawn to aspects of chaos theory and the problems of quantum chaos On the other hand the very strong fields necessary for low quantum numbers are realized in the cosmos in particular with white dwarfs and neutron stars

Atom Jack Challoner, 2018-09-06 Until now popular science has relegated the atom to a supporting role in defining the different chemical elements of the periodic table This bold new title places its subject center stage shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify The book covers a huge range of topics including the development of scientific thinking about the atom the basic structure of the atom how the interactions between atoms account for the familiar properties of everyday materials the power and mystery of the atomic nucleus and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality Sparkling text banishes an outdated world of dull chemistry as it brightly introduces the reader to what everything is made of and how it all works on the most fundamental level Expanding Frontier Of Atomic Physics, The - Proceedings Of The Xviii International Conference On Atomic Physics Hossein R Sadeghpour, Eric J Heller, David E Pritchard, Pierre Agostini, 2003-04-29 This important proceedings volume highlights the major scientific achievement of the last decade in atomic physics namely the creation of the gaseous Bose Einstein condensate which was featured prominently at the XVIII International Conference on Atomic Physics ICAP2002 Two recipients of the 2001 Nobel Prize delivered lectures at the meeting Among the topics discussed were novel processes leading to degenerate Fermi gases in atom traps creation of cold molecules condensates in optical lattices atoms in intense fields tests of fundamental symmetries quantum control and information time and frequency standards **The Physics of Atoms and Quanta** H. Haken, Hans Christoph Wolf, 2000 The Physics of Atoms and Quanta is a thorough introduction to experiments and theory in this field Every classical and modern aspect is covered and discussed in detail The sixth edition includes new developments as well as new experiments in quantum entanglement Schrodinger's cat the quantum computer quantum information the atom laser and much more A wealth of experiments and problems are included As this reference ends with the fundamentals of classical bonding it leads into the authors more advanced book Molecular Physics and Elements of Quantum Chemistry **Handbook on the Physics and Chemistry of Rare Earths** Karl A. Gschneidner (Jr.), L. Eyring, 2000-07-11 Even at the beginning of the new millennium the rare earths still remain to a certain extent a mystery The chapters in this volume will help to unravel some of these In the filling of the 4f electronic orbitals the lanthanides defy the elementary aufbau principle that underlies the periodic sequence

of the elements and the authors of the first chapter introduce the readers to the basic physics of the orbital collapse leading to that failure Furthermore an explanation is offered in terms of double well potentials The phenomenon is illustrated using the valence transitions observed in some of the rare earth atoms including Sm group metals and the higher oxides of cerium praseodymium and terbium In the second chapter the synthesis and structure of the many types of rare earth halides are described They have been described as simple complex binary ternary and multinuclear complex and other categories needed to deal with the most studied of the rare earth compounds The structure types are skillfully illustrated to show the elementary architecture of each type In chapter three the authors discuss the science and applications of rare earth super ionic conductors as solid electrolytes Conduction by oxygen and fluorine anions as well as hydrogen and other cations associated with these electrolytes is emphasized They deal with extrinsic and intrinsic types together with their associated structures and structural types including structural defects The chapter concludes with an outline of the many applications of solid electrolytes Chapter four introduces the reader to the principles that underlie thermoluminescence and its application to dosimetry and provides detailed information on the R activated phosphors that support dosimetry This is a selective review of detailed literature based on the areas making most progress The final chapter elaborates on the data gained by the studies and interpretation around the analytical separation of the individual rare earth elements utilizing chromatographic techniques The authors describe the fundamental chemistry that underpins contemporary analytical separation techniques for lanthanide separation and analysis This is done after a description of the rich assortment of separation methods in use has been introduced

**Atomic and Quantum Physics** Hermann Haken,Hans C. Wolf,2012-12-06 Atomic physics and its underlying quantum theory are the point of departure for many modern areas of physics astrophysics chemistry biology and even electrical engineering This textbook provides a careful and eminently readable introduction to the results and methods of empirical atomic physics The student will acquire the tools of quantum physics and at the same time learn about the interplay between experiment and theory A chapter on the quantum theory of the chemical bond provides the reader with an introduction to molecular physics Plenty of problems are given to elucidate the material The authors also discuss laser physics and nonlinear spectroscopy incorporating latest experimental results and showing their relevance to basic research Extra items in the second edition include solutions to the exercises derivations of the relativistic Klein Gordon and Dirac equations a detailed theoretical derivation of the Lamb shift a discussion of new developments in the spectroscopy of inner shells and new applications of NMR spectroscopy for instance tomography

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