

H Atom

S.G. Karshenboim,F.S. Pavone,F. Bassani,M. Inguscio,T.W. Hänsch

The Hydrogen Atom S.G. Karshenboim, F.S. Pavone, F. Bassani, M. Inguscio, T.W. Hänsch, 2001-06-20 For more than a century, studies of atomic hydrogen have been a rich source of scientific discoveries. These began with the Balmer series in 1885 and the early quantum theories of the atom, and later included the development of QED and the first successful gauge field theory. Today, hydrogen and its relatives continue to provide new fundamental information, as witnessed by the contributions to this book. The printed volume contains invited reviews on the spectroscopy of hydrogen, muonium, positronium, few-electron ions and exotic atoms, together with related topics such as frequency metrology and the determination of fundamental constants. The accompanying CD contains, in addition to these reviews, a further 40 contributed papers also presented at the conference Hydrogen Atom 2 held in summer 2000. Finally, to facilitate a historical comparison, the CD also contains the proceedings of the first Hydrogen Atom conference of 1988. The book includes a foreword by Norman F. Ramsey.

The Spectrum of Atomic Hydrogen--advances G. W. Series, 1988 After more than a century of study, the hydrogen atom still presents challenges and opportunities to theoretical as well as to experimental physicists. The discovery of the Lamb shift in the late nineteen forties, followed by the development of QED and the introduction of powerful new experimental techniques in the nineteen sixties and seventies, have preserved for hydrogen its central place in atomic physics. Part I of this book, a reprint of the work published in 1957, covers the period from the earliest days up to the late nineteen fifties. Part II, a collection of progress reports written by well-known specialists on hydrogen and hydrogen-like systems, presents the advances in theory and experiment that have occurred since that time.

Linearity, Symmetry, and Prediction in the Hydrogen Atom Stephanie Frank Singer, 2006-06-18 Concentrates on how to make predictions about the numbers of each kind of basic state of a quantum system from only two ingredients: the symmetry and linear model of quantum mechanics Method has wide applications in crystallography, atomic structure, classification of manifolds with symmetry and other areas Engaging and vivid style Driven by numerous exercises and examples Systematic organization Separate solutions manual available

The Hydrogen Atom G. Franco Bassani, Massimo Inguscio, Theodor Hänsch, 2012-12-06 Atomic hydrogen, the simplest of all stable atoms, has been a challenge to spectroscopists and theoreticians for many years. Here, as in similar systems like positronium, muonium and possibly helium, the accuracy of theoretical predictions is comparable to that of experimental measurements. Hence exciting confrontations are possible. This together with expected large experimental improvements explains the strong interest in the symposium held in Pisa in June-July 1988. The resulting book completely covers the precision spectroscopy of atomic hydrogen and hydrogen-like systems, and also discusses aspects of QED and the influence of strong fields.

Hydrogen John S. Rigden, 2003-11-30 Looks at the mysteries, scientific discoveries, and benefits of the chemical element hydrogen.

Production of H(1s2) by Hydrogen Atom Collisions R. A. Mapleton, 1965 The prior and post Born matrix elements are used to calculate the cross sections for H(1s2) production in hydrogen atom collisions. In contrast to the original version of this work done by Mapleton in 1960, the plane wave approximation to the Coulomb function is partially corrected. The same H(1s2) wave functions are used, and the post cross sections are substantially unaltered. Cross sections calculated with the improved H(1s2) wave function as compared with the other H(1s2) wave functions are from twenty to thirty-five per cent larger for the prior case and twenty to thirty per cent larger for the post case. The post-prior discrepancy, expressed as a ratio, varies between 0.001 and 0.33. (Author).

Models and Modelers of Hydrogen A Lakhtakia, 1996-06-12 Atomic theory began more than two and a half millenia ago in Greece and India; but scientific details have emerged — albeit very rapidly — only in our century. This book conveys a glimpse of the grandeur of 20th century physics through nine essays and one interview on the models and modelers of a basic element of matter: the hydrogen atom. The basic ideas are simply presented and illustrated, the mathematical treatments are of a tutorial nature, and facsimile reproductions of ten key papers are included. Using the simple hydrogen atom, educators may use this book to initiate high school students into the grandeur of physics or motivate university students to become science-literate.

Stark Effect in a Hydrogenic Atom Or Ion Nanny Frimman, Per Olof Frimman, 2008 This book treats the Stark effect of a hydrogenic atom or ion in a homogeneous electric field. It begins with a thorough review of previous work in this field since 1926. After the Schrödinger equation has been separated with respect to time dependence, centre of mass motion and internal motion, followed by a discussion of its eigenfunctions, the exact development in time of the probability amplitude for a decaying state is obtained by means of a formula analogous to the Fock-Krylov theorem. From this formula one obtains by means of the phase-integral approximation generated from a particular base function non-relativistic formulas for profiles, energies and half-widths of the Stark levels. These formulas are then transformed into formulas expressed in terms of complete elliptic integrals. The formulas thus obtained are used for the calculation of energies and half-widths of 198 different Stark states, which are compared with the corresponding results obtained by other authors with the use of other methods. An analysis of this material indicates that the energy values obtained by the phase-integral method are at least as accurate as those obtained by other methods in more than half of the 198 cases. The book presents one of the most comprehensive asymptotic treatments of the Stark effect in atomic hydrogen that have been published.

Probing the Atom Mark P. Silverman, 2021-04-13 The many-faceted efforts to understand the structure and interactions of atoms over the past hundred years have contributed decisively and dramatically to the explosive development of physics. There is hardly a branch of modern physical science that does not in some seminal way rely on the fundamental principles and mathematical and experimental insights that derive from these studies. In particular, the drive to understand the singular features of the hydrogen atom—simultaneously the archetype of all atoms and the least typical atom—spurred many of the twentieth century's advances in physics and chemistry. This book gives an in-depth account of the author's own penetrating experimental and theoretical investigations of the hydrogen atom, while simultaneously providing broad lessons in the application of quantum mechanics to atomic structure and interactions. A pioneer in the combined use of atomic accelerators and radiofrequency spectroscopy for probing the internal structure of the hydrogen atom, Mark Silverman examines the general principles behind this far-reaching experimental approach. Fast-moving protons are directed into gas or foil targets from which they capture electrons to become hydrogen atoms moving uniformly at very high speeds. During their rapid passage through the spectroscopy chamber of the atomic accelerator, these atoms reveal by the light they emit fascinating details of their internal configuration and the interactions that created them. Silverman examines the effects of radiofrequency fields on the hydrogen atom clearly and systematically, explaining the details of these interactions at different levels of complexity and refinement, each level illuminating the physical processes involved from different and complementary perspectives. Readers interested in diverse areas of physics and physical chemistry will appreciate both the theoretical and practical implications of Silverman's studies and the personal style with which he relays them. This is a work of not only an outstanding research physicist, but a fine teacher who understands how curiosity underlies all science.

The Supersymmetric Dirac Equation Allen Hirshfeld, 2012 The solution of the Dirac equation for an electron in a Coulomb field is systematically treated here by utilizing new insights provided by supersymmetry. It is shown that each of the concepts has its analogue in the non-relativistic case. Indeed, the non-relativistic case is developed first, in order to introduce the new concepts in a familiar context. The symmetry of the non-relativistic model is already present in the classical limit, so the classical Kepler problem is first discussed in order to bring out the role played by the Laplace vector, one of the central concepts of the whole book. Analysis of the concept of eccentricity of the orbits turns out to be essential to understanding the relation of the classical and quantum mechanical

models. The opportunity is taken to relive the great moments of physics: From Kepler's discovery of the laws of motion of the planets, the development is traced through the Dirac equation up to modern advances, which bring the concepts of supersymmetry to bear on the derivation of the solutions.

The Hydrogen Atom, 1989

An Improved Hydrogen Atom Beam Furnace Ralph Klein, John Pararas, 1960 An improvement in the construction of the tungsten furnace for use in a hydrogen atom-beam apparatus has been effected by fabricating the furnace from a tungsten rod. This avoids the possibility of leakage of molecular hydrogen which may occur when the tungsten tube is made from rolled tungsten sheet, the technique used heretofore. The fabrication of the seamless furnace and the method of mounting are described.

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.

Vortex Atom, The: A New Paradigm Barry R Clarke, 2021-03-11 With clear illustrations throughout and without recourse to quantum mechanics, the reader is invited to revisit unsolved problems lying at the foundations of theoretical physics. Maxwell and his contemporaries abandoned their search for a geometrical representation of the electric and magnetic fields. The wave-particle dilemma and Bose-Einstein statistical counting have resulted in unsatisfactory non-realistic interpretations. Furthermore, a simple structure of the hydrogen atom that includes hyperfine levels is still wanting. Working with the latest experimental data in photonics a proposed solution to the wave-particle dilemma is suggested based on an array of circular-polarized rays. The Bose-Einstein counting procedure is recast in terms of distinguishable elements. Finally, a vortex model of a 'particle' is developed based on a trapped photon. This consists of a single ray revolving around a toroidal surface, and allows a geometrical definition of mass, electric potential, and magnetic momentum. With the adjustment of two parameters, values to 4 dp for the hyperfine frequencies (MHz) of hydrogen can be obtained for which a computer program is available.

Atoms in Strong Fields C.A. Nicolaides, Charles W. Clark, Munir H. Nayfeh, 2013-11-11 This book collects the lectures given at the NATO Advanced Study Institute on Atoms in Strong Fields, which took place on the island of Kos, Greece, during the two weeks of October 9-21, 1988. The designation strong field applies here to an external electromagnetic field that is sufficiently strong to cause highly nonlinear alterations in atomic or molecular structure and dynamics. The specific topics treated in this volume fall into two general categories, which are those for which strong field effects can be studied in detail in terrestrial laboratories: the dynamics of excited states in static or quasi-static electric and magnetic fields; and the interaction of atoms and molecules with intense laser radiation. In both areas there exist promising opportunities for research of a fundamental nature. An electric field of even a few volts per centimeter can be very strong on the atomic scale, if it acts upon a weakly bound state. The study of Rydberg states with high resolution laser spectroscopic techniques has made it possible to follow the transition from weak-field to strong-field behavior in remarkable detail, using static fields of modest laboratory strength; in the course of this transition the atomic system evolves from one which can be thoroughly understood in terms of field-free quantum numbers, to one which cannot be meaningfully associated at all with the zero-field states of the atom.

The Hydrogen Atom S.G. Karshenboim, F.S. Pavone, F. Bassani, M. Inguscio, T.W. Hänsch, 2007-12-03 For more than a century, studies of atomic hydrogen have been a rich source of scientific discoveries. These began with the Balmer series in 1885 and the early quantum theories of the atom, and later included the development of QED and the first successful gauge field theory. Today, hydrogen and its relatives continue to provide new fundamental information, as witnessed by the contributions to this book. The printed volume contains invited reviews on the spectroscopy of hydrogen, muonium, positronium, few-electron ions and exotic atoms, together with related topics such as frequency metrology and the determination of fundamental constants. The accompanying CD contains, in addition to these reviews, a further 40 contributed papers also presented at the conference Hydrogen Atom 2 held in summer 2000. Finally, to facilitate a historical comparison, the CD also contains the proceedings of the first Hydrogen Atom conference of 1988. The book includes a foreword by Norman F. Ramsey.

Theory of the 2s and the 2p Excitation of the Hydrogen Atom Induced by Electron Impact Kazem Omidvar, 1964

Visible and Infra-red Radiation of Hydrogen ... Frederick Summer Brackett, 1922

The Physics of Atoms and Quanta Hermann Haken, Hans C. Wolf, 2012-12-06 The second edition of this book again enjoyed a very positive reception from both university teachers and students. In this edition we have removed all of the typographical errors that came to our attention. In order to keep the book as current as possible, new developments in the direct observation of individual atoms in electromagnetic traps (Paul traps) and of atoms in molecules on solid surfaces using the scanning tunnel microscope have been added to this edition. Furthermore, new experiments in atomic interferometry have been included; they have become possible by making use of modern microstructure technology. Finally, the possibility of cooling atomic beams using laser radiation has taken on increasing importance; therefore we have treated this subject as well. This third English Edition corresponds to a future Fifth German Edition. We again thank all those colleagues and students who have pointed out to us errors in previous editions. It is a pleasure for us to thank again Springer-Verlag, in particular Dr. H. Latsch, Dr. H. J. Kolsch and C.-D. Bachem for their always excellent cooperation.

Calculation of Transport Properties of Ionizing Atomic Hydrogen Norman T. Grier, 1966

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