

Rydberg Series in Atoms and Molecules

A. B. F. DUNCAN

PHYSICAL CHEMISTRY A Series of Monographs

Rydberg Series In Atoms And Molecules

**United States. Energy Research and
Development Administration**

A decorative graphic element consisting of a red and white circular shape, resembling a stylized atom or a lens, positioned to the right of the text box.

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Rydberg States of Atoms and Molecules R. F. Stebbings, F. B. Dunning, 1983-04-29 After the development of the tunable laser experimental studies in Rydberg states of atoms and molecules grew at a remarkable rate Fundamental questions were resolved opening doors for more experimental activity and theoretical inquiry In this comprehensive summary of knowledge of Rydberg states which was originally published in 1983 Professors Stebbings and Dunning brought together a select collection of experimental and theoretical discussions Composed of works by the acknowledged leaders in the field this volume will be of value for anyone with an interest in molecular physics

Rydberg Series in Atoms and Molecules A Duncan, 2012-12-02 Rydberg Series in Atoms and Molecules deals with the Rydberg states of atomic and molecular systems Rydberg series in atomic spectra and of diatomic molecules are examined along with Rydberg terms of polyatomic molecules such as hydrocarbons with triple bonds hydrocarbon molecules with double bonds and benzene and benzene derivatives Comprised of four chapters this book begins with an overview of the spectrum of the hydrogen atom along with some elementary and useful concepts and definitions Some difficulties in the classification of excited states of simple molecules into Rydberg and non Rydberg states are highlighted The next chapter considers Rydberg series in atomic spectra and theoretical methods for quantitative description of atomic structures One electron models for Rydberg terms are also described together with Rydberg series of diatomic molecules such as N₂ and O₂ CO and NO and bromine and iodine The final chapter is devoted to Rydberg terms of polyatomic molecules including hydrocarbons with triple and double bonds benzene and benzene derivatives hydrides with central atom saturated hydrocarbons and aldehydes and ketones This monograph is written primarily for both students and nonspecialists

Rydberg Series in Atoms and Molecules Albert B. F. Duncan, 1971

Atoms and Molecules Robert Martin Caven, 1927

Physical chemistry Albert B. F. Duncan, 1971

Physics of Highly Excited Atoms and Ions Vladimir S. Lebedev, Israel L. Beigman, 2012-12-06 This monograph is devoted to the basic aspects of the physics of highly excited Rydberg states of atoms After almost twenty years this remains a hot topic of modern atomic physics Such studies are important for many areas of physics and its applications including spectroscopy astrophysics and radio astronomy physics of electronic and atomic collisions kinetics and diagnostics of gases and low and high temperature plasmas Physical phenomena in radiative collisional and spectral line broadening processes involving Rydberg atoms and ions are primarily determined by the peculiar properties and exotic features of highly excited states The growth of interest and research activity in the physics of Rydberg the last two decades was stimulated by an extremely rapid development of high resolution laser spectroscopy methods of selective excitation and detection of highly excited states atomic beam techniques as well as radio astronomy This has facilitated significant progress in the different directions of the physics of highly excited atoms being of fundamental and practical importance In particular evident advances were achieved in studies of the structure and spectra of highly excited atoms their behavior in static

electric and magnetic fields interactions with electromagnetic radiation spectral line broadening and the shift of Rydberg series collisions with electrons ions atoms and molecules etc The principle objective of the present book is to reflect the most important physical approaches and efficient theoretical techniques in the modern physics of highly excited atoms and ions

Atom, Molecule, and Cluster Beams I Hans Pauly, 2012-12-06 A consistent up to date description of the extremely manifold and varied experimental techniques which nowadays enable work with neutral particles The book lays the physical foundations of the various experimental techniques which utilize methods from most fields in physics **Atoms, Molecules**

and Optical Physics 2 Ingolf V. Hertel, Claus-Peter Schulz, 2014-10-22 This is the second volume of textbooks on atomic molecular and optical physics aiming at a comprehensive presentation of this highly productive branch of modern physics as an indispensable basis for many areas in physics and chemistry as well as in state of the art bio and material sciences It primarily addresses advanced students including PhD students but in a number of selected subject areas the reader is lead up to the frontiers of present research Thus even the active scientist is addressed This volume 2 introduces lasers and quantum optics while the main focus is on the structure of molecules and their spectroscopy as well as on collision physics as the continuum counterpart to bound molecular states The emphasis is always on the experiment and its interpretation while the necessary theory is introduced from this perspective in a compact and occasionally somewhat heuristic manner easy to follow even for beginners *Atoms, Molecules and Photons* Wolfgang Demtröder, 2019-02-09 This introduction to Atomic

and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions are offered to encourage readers to actively engage in applying and adapting the fundamental physics presented in this textbook to specific situations Completely revised third edition with new sections covering all actual developments like photonics ultrashort lasers ultraprecise frequency combs free electron lasers cooling and trapping of atoms quantum optics and quantum information

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 *Giant Resonances in*

Atoms, Molecules, and Solids J.P. Connerade, J.M. Esteva, R.C. Karnatak, 2013-12-20 Often a new area of science grows at the confines between recognised subject divisions drawing upon techniques and intellectual perspectives from a diversity of fields. Such growth can remain unnoticed at first until a characteristic family of effects described by appropriate key words has developed at which point a distinct subject is born. Such is very much the case with atomic giant resonances. For a start their name itself was borrowed from the field of nuclear collective resonances. The energy range in which they occur at the juncture of the extreme UV and the soft X rays remains to this day a meeting point of two different experimental techniques: the grating and the crystal spectrometer. The impetus of synchrotron spectroscopy also played a large part in developing novel methods described by many acronyms which are used to study giant resonances today. Finally, although we have described them as atomic to differentiate them from their counterparts in Nuclear Physics, their occurrence on atomic sites does not inhibit their existence in molecules and solids. In fact, giant resonances provide a new unifying theme cutting across some of the traditional scientific boundaries. After much separate development, the spectroscopies of the atom in various environments can meet afresh around this theme of common interest. Centrifugal barrier effects and giant resonances proper emerged almost simultaneously in the late 1960s from two widely separated areas of physics: namely the study of free atoms and of condensed matter. **Valence and the Structure of Atoms and Molecules** Gilbert Newton Lewis, 1923

Nuclear Science Abstracts, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 **ERDA Research Abstracts** United States. Energy Research and Development Administration, 1976 *Excited States in Quantum Chemistry* Cleanthes A. Nicolaides, D.R. Beck, 2012-12-06 It is undoubtedly true that much of the progress in the quantum theory of matter is due to the remarkable success of the independent particle model (IPM) especially in describing ground states. However, the accurate experimental results of the last 10 years or so on a variety of spectroscopic phenomena and chemical processes which involve the Excited State and the related failure of the IPM to reproduce accurately in many cases even qualitatively the observed data have sent to theorists a clear message: There is need to create and/or apply general and useful approaches to the many-electron problem of the excited state which go beyond the IPM treatment of electron correlation and relativity and explain or predict all relevant physical or chemical information with consistent accuracy. This book contains articles devoted mainly to some of the most important new developments in Quantum Chemistry concerning the theoretical foundations and the computational implementation of many-body approaches to the quantitative and detailed understanding of the electronic excited states of atoms, molecules, and solids. Furthermore, it contains experimental and phenomenological articles on Photoelectron and Auger spectroscopy, Lifetime measurements, and Organic Photochemistry. In combination or individually, these articles constitute a good description of some current theoretical and experimental work on the electronic structure and spectroscopy of atoms, molecules, polymers, surfaces, metal oxides, and amorphous solids. *ERDA Energy Research Abstracts* United States. Energy

Research and Development Administration. Technical Information Center,1976 **The Iodine Molecule** Sergey Lukashov,Alexander Petrov,Anatoly Pravilov,2018-01-02 This book presents experimental and theoretical spectroscopic studies performed over the last 25 years on the iodine molecule s excited states and their perturbations It is going to be of interest to researchers who study intra and intermolecular perturbations in diatomic molecules and more complex systems The book offers a detailed treatment of the nonadiabatic perturbations of valence ion pair and Rydberg states induced by intramolecular as well as intermolecular interactions in collisions or in weakly bound complexes It also provides an overview of current instrumentation and techniques as well as theoretical approaches describing intra and intermolecular perturbations The authors are experts in the use of spectroscopy for the study of intrinsic and collision induced perturbations in diatomic iodine They introduced a new method of three step optical population of the iodine ion pair states The iodine molecule has 23 valence states correlating with three dissociation limits 20 so called ion pair states nestled in four tiers and a multitude of Rydberg states All the states have different angular momenta parities and very dense rovibronic levels Moreover perturbations caused by atomic or molecular partners lead to effective nonadiabatic transitions For these reasons the authors propose this molecule as a model system for spectroscopic studies of intra and intermolecular perturbations in other diatomic molecules Handbook of High-resolution Spectroscopy Martin Quack,Frederic Merkt,2011-09-26 The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications The first comprehensive survey in high resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy laser technology chemical computation and experiments Brings the reader up to date with the many advances that have been made in recent times Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV Combines theoretical computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational vibration electronic and photoelectron spectroscopy Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications **Journal of the Moscow Physical Society** ,1998

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