

# Collision-induced Absorption in Gases

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ON ATOMIC, MOLECULAR AND  
CHEMICAL PHYSICS

# Collision Induced Absorption In Gases Cambridge Monographs On Atomic Molecular And Chemical Physics

**Jean-Michel Hartmann, Christian  
Boulet, Daniel Robert**



## **Collision Induced Absorption In Gases Cambridge Monographs On Atomic Molecular And Chemical Physics:**

**Collision-induced Absorption in Gases** Lothar Frommhold, 1993 This book reviews the present knowledge of collision induced absorption of infrared radiation in the dense common gases Following a brief introduction and review of essential background information such as dipole radiation molecular collisions and interactions numerous experimental results for the absorption spectra of dense gases are presented Other chapters review the causes and properties of dipole moments induced by molecular interactions the theory of collision induced absorption in monatomic gas mixtures and in molecular gases and mixtures The final chapter discusses related phenomena and the important applications in astrophysics Throughout the book the emphasis is on the absorption by binary molecular complexes but the onset of many body effects such as the ternary contributions and the intercollisional process are also considered The volume is meant to be a practical guide and sourcebook for the researcher interested in the spectroscopy of dense neutral fluids This edition includes a new appendix reviewing recent work

*Collisional Effects on Molecular Spectra* Jean-Michel Hartmann, Christian Boulet, Daniel Robert, 2008-08-12 Gas phase molecular spectroscopy is a powerful tool for obtaining information on the geometry and internal structure of isolated molecules as well as on the interactions that they undergo It enables the study of fundamental parameters and processes and is also used for the sounding of gas media through optical techniques It has been facing always renewed challenges due to the considerable improvement of experimental techniques and the increasing demand for accuracy and scope of remote sensing applications In practice the radiating molecule is usually not isolated but diluted in a mixture at significant total pressure The collisions among the molecules composing the gas can have a large influence on the spectral shape affecting all wavelength regions through various mechanisms These must be taken into account for the correct analysis and prediction of the resulting spectra This book reviews our current experimental and theoretical knowledge and the practical consequences of collisional effects on molecular spectral shapes in neutral gases General expressions are first given They are formal of difficult use for practical calculations often but enable discussion of the approximations leading to simplified situations The first case examined is that of isolated transitions with the usual pressure broadening and shifting but also refined effects due to speed dependence and collision induced velocity changes Collisional line mixing which invalidates the notion of isolated transitions and has spectral consequences when lines are closely spaced is then discussed within the impact approximation Regions where the contributions of many distant lines overlap such as troughs between transitions and band wings are considered next For a description of these far wings the finite duration of collisions and concomitant breakdown of the impact approximation must be taken into account Finally for long paths or elevated pressures the dipole or polarizability induced by intermolecular interactions can make significant contributions Specific models for the description of these collision induced absorption and light scattering processes are presented The above mentioned topics are reviewed and discussed from a threefold point of view the various models the available data and

the consequences for applications including heat transfer remote sensing and optical sounding The extensive bibliography and discussion of some remaining problems complete the text State of the art on the subject A bibliography of nearly 1 000 references Tools for practical calculations Consequences for other scientific fields Numerous illustrative examples Fulfilling a need since there is no equivalent monograph on the subject Collision- and Interaction-Induced Spectroscopy G.C. Tabisz, Murray N. Neuman, 2012-12-06 Collision or interaction induced spectroscopy refers to radiative transitions which are forbidden in free atoms or molecules but which occur in clusters of interacting atoms or molecules The most common phenomena are induced absorption in the infrared region and induced light scattering which involves inelastic scattering of visible laser light The particle interactions giving rise to the necessary induced dipole moments and polarizabilities are modelled at long range by multipole expansions at short range electron overlap and exchange mechanisms come into play Information on atomic and molecular interactions and dynamics in dense media on a picosecond timescale may be drawn from the spectra Collision induced absorption in the infrared was discovered at the University of Toronto in 1949 by Crawford Welsh and Locke who studied liquid O and N Through the 1950s and 1960s 2 2 experimental elucidation of the phenomenon particularly in gases continued and theoretical underpinnings were established In the late 1960s the related phenomenon of collision induced light scattering was first observed in compressed inert gases In 1978 an Enrico Fermi Summer School was held at Varenna Italy under the directorship of J Van Kranendonk The lectures there reviewed activity from the previous two decades during which the approach to the subject had not changed greatly In 1983 a highly successful NATO Advanced Research Workshop was held at Bonas France under the directorship of G Birnbaum An important outcome of that meeting was the demonstration of the maturity and sophistication of current experimental and theoretical techniques

**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 Advances in Chemical Physics, Volume 142 Stuart A. Rice, 2009-05-27 The Advances in Chemical Physics series presents the cutting edge in every area of the discipline and provides the field with a forum for critical authoritative evaluations of advances It provides an editorial framework that makes each volume an excellent supplement to advanced graduate classes with contributions from experts around the world and a handy glossary for easy reference on new terminology This series is a wonderful guide for students and professionals in chemical physics and physical chemistry from academia government and industries including chemicals pharmaceuticals and polymers

Electron Spectrometry of Atoms Using Synchrotron Radiation Volker Schmidt, 1997-05-15 The study of electron spectrometry using synchrotron radiation is a growing field of research driven by the increasing availability of advanced synchrotron radiation light sources and improved theoretical methods for solving the many electron problem in atoms This balanced account by a leading researcher in this field will be of value to both theorists and experimentalists in atomic molecular and chemical physicists **Photodissociation Dynamics** Reinhard Schinke, 1995-05-11 Photodissociation

induced by the absorption of single photons permits the detailed study of molecular dynamics such as the breaking of bonds internal energy transfer and radiationless transitions The availability of powerful lasers operating over a wide frequency range has stimulated rapid development of new experimental techniques which make it possible to analyse photodissociation processes in unprecedented detail This text elucidates the achievements in calculating photodissociation cross sections and fragment state distributions from first principles starting from multi dimensional potential energy surfaces and the Schrödinger equation of nuclear motion Following an extended introduction in which the various types of observables are outlined the book summarises the basic theoretical tools namely the time independent and the time dependent quantum mechanical approaches as well as the classical picture of photodissociation The discussions of absorption spectra diffuse vibrational structures the vibrational and rotational state distributions of the photofragments form the core of the book More specific topics such as the dissociation of vibrationally excited molecules emission during dissociation or nonadiabatic effects are also discussed It will be of interest to graduate students and senior scientists working in molecular physics spectroscopy molecular collisions and molecular kinetics

*Positron Physics* M. Charlton, J. W. Humberston, 2005-10-13 This book provides a comprehensive and up to date account of the field of low energy positrons and positronium within atomic and molecular physics It begins with an introduction to the field discussing the background to low energy positron beams and then covers topics such as total scattering cross sections elastic scattering positronium formation excitation and ionisation annihilation and positronium interactions Each chapter contains a blend of theory and experiment giving a balanced treatment of all the topics The book will be useful for graduate students and researchers in physics and chemistry It is ideal for those wishing to gain rapid in depth knowledge of this unique branch of atomic physics

*Highly Excited Atoms* J. P. Connerade, 1998-05-07 An introduction to the physics of highly excited easily perturbed or interacting atoms Covers Rydberg states quantum defect theory atomic f values centrifugal barrier effects autoionisation inner shell and double excitation spectra K matrix theory atoms in high laser fields statistical methods quantum chaos and atomic effects in solids

**New Technical Books** New York Public Library, 1994

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