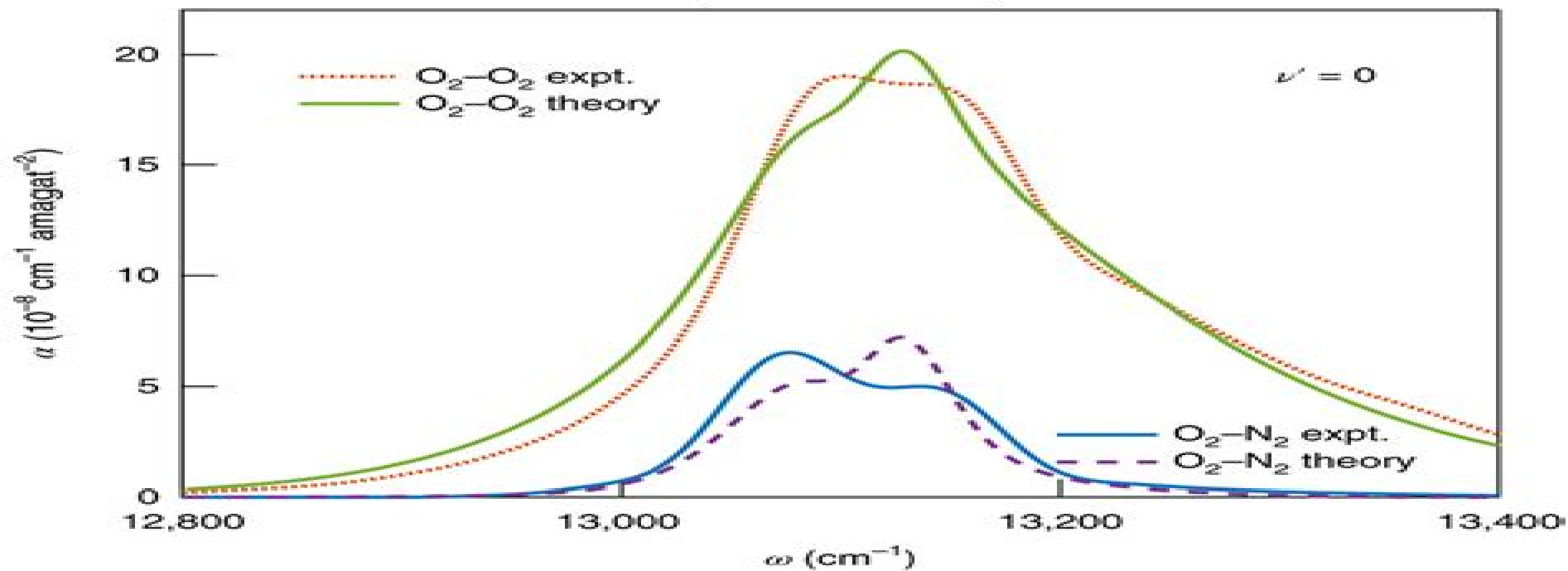
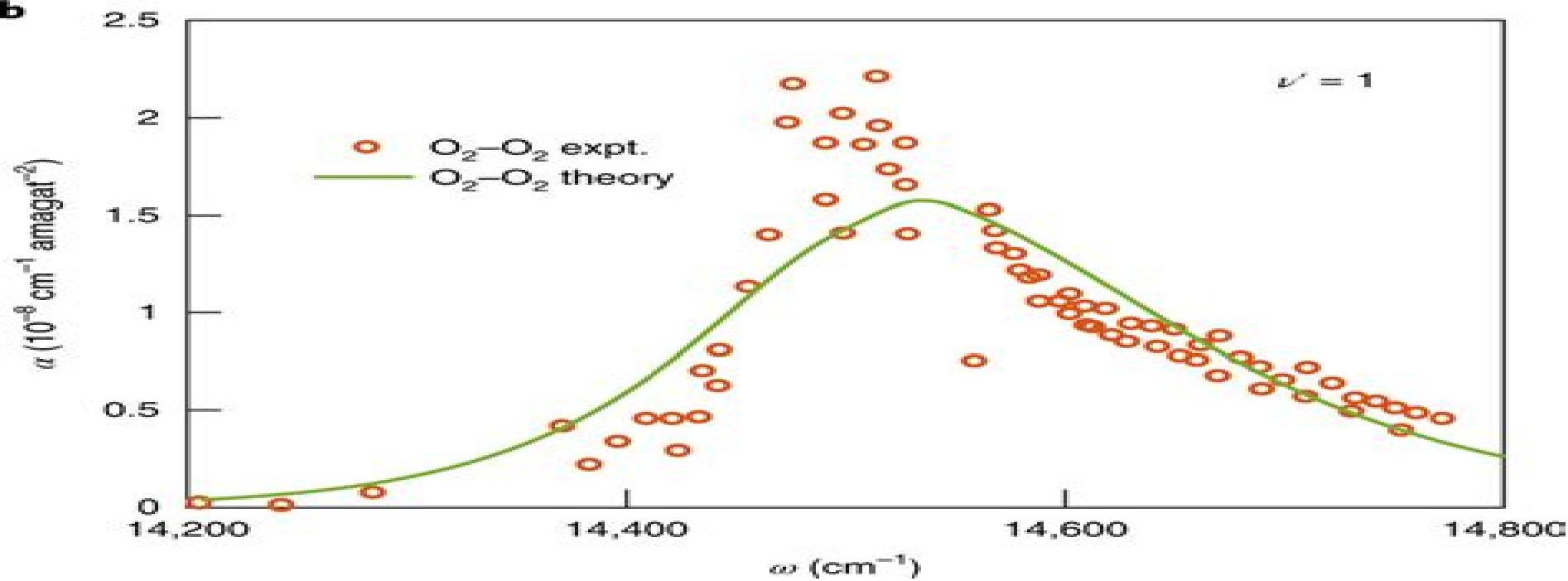


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# Collision Induced Absorption In Gases

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



## **Collision Induced Absorption In Gases:**

**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

**Collision-induced Absorption in Gases** Lothar Frommhold, 2006-05-18 The book reviews our present knowledge of collision induced absorption of infrared radiation in dense gases The book starts with a recapitulation of essential background information Experimental results for the absorption spectra are next discussed Then the causes and properties of dipole moments induced by molecular interactions are reviewed Two following chapters present the theory of collision induced absorption in monatomic gas mixtures and in molecular gases and mixtures The final chapter discusses related phenomena and important applications in astrophysics The book is a practical guide for the spectroscopic dealing with dense neutral fluids

**Collision-induced Absorption of Compressed Gases in the Very Far Infrared** Douglas R. Bosomworth, H. L. (supervisor) Welsh, 1964 *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

**Weakly Interacting Molecular Pairs: Unconventional Absorbers of Radiation in the Atmosphere** Claude Camy-Peyret, Andrei A. Vigasin, 2012-12-06 The Advanced Research Workshop entitled Weakly Interacting Molecular Pairs Unconventional Absorbers of Radiation in the Atmosphere was held in Abbaye de Fontevraud France from April 29 to May 3 2002 The meeting involved 40 researchers from 14 countries The goal of this meeting was to address a problem that the scientific community is aware of for many years Up now however the solution for this problem is far from satisfactory Pair effects are called unconventional in the title of this meeting In specific spectral domains and/or geophysical conditions they are recognized to play a dominant role in the absorption emission properties of the atmosphere Water vapor continuum absorption is among the most prominent examples Permanently improving accuracy of both laboratory studies and field observations requires better knowledge of the spectroscopic features attributable to molecular pairs which may form at equilibrium The Workshop was targeted both to clarify the pending questions and as far as feasible to trace the path to possible answers since the underlying phenomena are yet incompletely understood and since a reliable theory is often not available On the other hand the lack of precise laboratory data on bimolecular absorption is often precluding the construction of reliable theoretical models Ideally the knowledge accumulated in the course of laboratory studies should correlate with the practical demands from those who are carrying out atmospheric field measurements and space observations

*Collision-induced Absorption in Diatomic Molecule/rare-gas Mixtures* H. T. Yura, 1967 A quantum mechanical calculation is given for collision induced absorption in the infrared and far infrared spectral regions for mixtures consisting of symmetrical diatomic molecules and rare gas atoms The induced moment consists of a short range overlap term and a long range quadrupole term Near molecular transition lines the quadrupole term gives the main contribution to the absorption while in the far wings the overlap term is dominant The H<sub>2</sub> He H<sub>2</sub> Ar N<sub>2</sub> Ar systems are considered and an estimate is given of the absorption

coefficient near 10 millimicrons for N<sub>2</sub> N<sub>2</sub> systems Author     Atmospheric Radiation R. M. Goody, Y. L. Yung, 1995-12-07 A complete revision of Goody's classic 1964 work this volume offers a systematic discussion of atmospheric radiation processes that today are at the center of worldwide study and concern It deals with the ways in which incident solar radiation is transformed into scattered and thermal radiation and the thermodynamic consequences for the Earth's gaseous envelope identifying aspects of the interaction between radiation and atmospheric motions as the central theme for atmospheric radiation studies As a complete treatment of physical and mathematical foundations the text assumes no prior knowledge of atmospheric physics The theoretical discussion is systematic and can therefore be applied with minor extension to any planetary atmosphere     **Opacity** Walter F. Huebner, W. David Barfield, 2014-01-02 This book covers all aspects of opacity and equations of state for gases plasmas and dust The discussion emphasizes the continuous transformation of the equilibrium compositions of these phases as a function of temperature and density     **NASA Technical Note** , 1971

*Molecular Spectroscopy* Chemical Society (Great Britain), R. F. Barrow,     *Molecular Spectroscopy* R F Barrow, Derek A Long, D J Millen, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume     **Data Index for Energy Transfer Collisions of Atoms and Molecules, 1970-1979** J. W. Gallagher, 1981     Nuclear Science Abstracts , 1976-05     *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1988     **NBS Special Publication** , 1968     **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1984     *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1983     *The Handbook of Surface Imaging and Visualization* Arthur T. Hubbard, 2022-04-19 This exciting new handbook investigates the characterization of surfaces It emphasizes experimental techniques for imaging of solid surfaces and theoretical strategies for visualization of surfaces areas in which rapid progress is currently being made This comprehensive unique volume is the ideal reference for researchers needing quick access to the

latest developments in the field and an excellent introduction to students who want to acquaint themselves with the behavior of electrons atoms molecules and thin films at surfaces It s all here under one cover The Handbook of Surface Imaging and Visualization is filled with sixty four of the most powerful techniques for characterization of surfaces and interfaces in the material sciences medicine biology geology chemistry and physics Each discussion is easy to understand succinct yet incredibly informative Data illustrate present research in each area of study A wide variety of the latest experimental and theoretical approaches are included with both practical and fundamental objectives in mind Key references are included for the reader s convenience for locating the most recent and useful work on each topic Readers are encouraged to contact the authors or consult the references for additional information This is the best ready reference available today It is a perfect source book or supplemental text on the subject

**Handbook of Metrology** Michael Gläser, Manfred Kochsiek, 2010-06-08 Metrology is the study of measurement It includes all theoretical and practical aspects of measurement and may be divided into three subfields Scientific or fundamental metrology concerns the establishment of measurement units unit systems development of new measurement methods realization of measurement standards and the transfer of traceability from these standards to users in society This handbook contains articles dealing with general topics of measurement and articles on particular subjects in mechanics and acoustics electricity optics temperature time and frequency chemistry medicine and particles The contributions of the first part are summarized as follows Introduction Units Fundamental Constants Fundamentals of Materials Measurement and Testing Measurement of Mass Density Measurement and Instrumentation of Flow Ultrasonics Measurement of Basic Electromagnetic Quantities Quantum Electrical Standards Metrology of Time and Frequency Temperature Measurement Metrology in Medicine

Metal-Ligand Interactions N. Russo, Dennis R. Salahub, 2012-12-06 Metal Ligand Interactions Structure and Reactivity emphasizes the experimental determination of structure and dynamics supported by the theoretical and computational approaches needed to establish the concepts and guide the experiments Leading experts present masterly surveys of clusters inorganic complexes surfaces catalysis ab initio theory density functional theory semiempirical methods and dynamics Besides the presentations of the fields of study themselves the papers also bring out those aspects that impinge on or could benefit from progress in other disciplines Refined in the fire of an interactive and stimulating conference the papers presented here represent the state of the art of current research

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