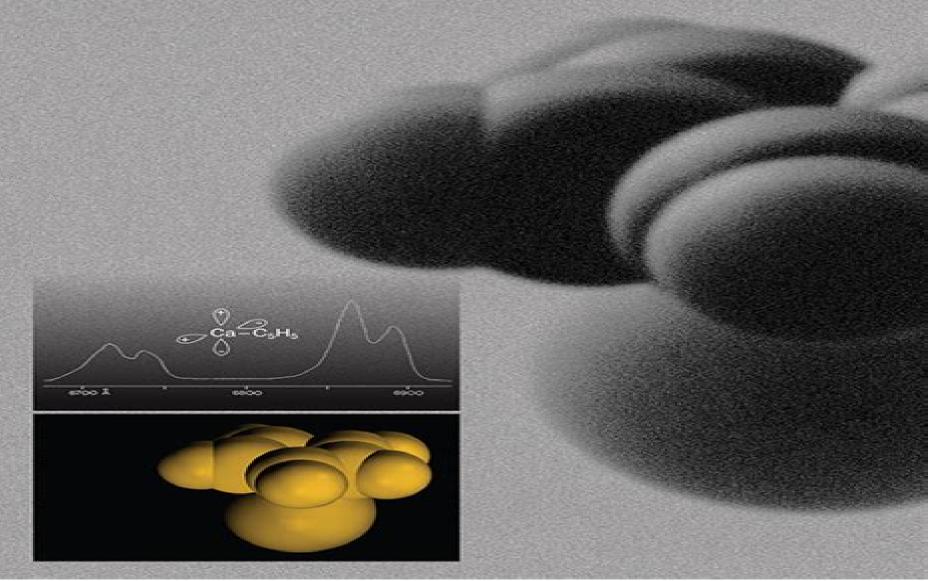
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# Spectra of Atoms and Molecules

Peter F. Bernath



# **Spectra Of Atoms And Molecules**

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results I have been developing with my colleagues friends and students at the Institute of Spectroscopy USSR Academy of Sciences in the town of Troitsk since 1970 It deals with the interaction of light with atoms and molecules via multiple phonon inter action Nonlinear processes in the resonant interaction are used to illustrate the physical mechanisms involved and to indicate how these processes have led to modern applications such as isotope separation detection of single atoms and molecules and chemical and biochemical synthesis 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 accross 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 1960 s from two widely separated areas of physics namely the study of free atoms and of condensed matter **Iournal** of the Society of Chemical Industry (Great Britain), 1925 Includes list of members 1882 1902 proceedings of the annual meetings and various supplements 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 Th book lays the physical foundations of the various experimental techniques which utilize methods from most fields in physics Chemistry for Engineers Dr. B.K. Ambasta, 2008

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