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1 GARulldhas, " Molecular structure and spectroscopy", second edition, practice - Hall of India, Pvt Ltd, New Delhi - 110001, 2007 2 Fundamentals of Molecular spectroscopy - Colin N Banwell and Elaine M Mccash 3 Spectroscopy - GR Cghatwal and SK Anand Unit - I Microwave Spectroscopy 11 Classification of Molecules

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### **CHM6490: Introduction to Molecular Spectroscopy**

{ Banwell, CN, McCash, EM, "Fundamentals of Molecular Spectroscopy" 4ed, McGraw-Hill, 1994) An advanced (graduate level) Quantum text { C Schatz and M A Ratner Quantum Mechanics in Chemistry, (Prentice Hall, 1993) Chapter 9 of this book provides an introduction to the time-dependent approach to spectroscopy

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“band spectroscopy” which allows study of the inter-atomic potential and the elucidation of the chemical bond All of these effects are found to be in complete accord with the Schrödinger theory, and bring us to a deep understanding of atomic structure and molecular structure Beyond this, modern techniques re-

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of molecular properties from vibrational spectra of diatomic molecules (Reference books:- 1 Molecular structure and spectroscopy , 2 nd edition (PHI learning Pvt Ltd New Delhi) by G Aruldas 2 Fundamentals of Molecular Spectroscopy ( McGraw-Hill Publishing Company) by Colin Banwell) 7

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Bibliography I 447 316 J Finlan, G Simons, “Capabilities and Limitations of an Analytical Potential Expansion for Diatomic Molecules”, J Mol Spectrosc57, 1

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