



































-----End of lecture-3 -----

Note: Several very good text books exist for infrared spectroscopy. The monumental work by Gerard Herzberg between 1939-1965 is available in the library as three volumes and is the source and inspiration for many researchers in this field. Herzberg, a physicist, won the Nobel prize in chemistry in 1971 for his contribution to molecular spectroscopy. A collection of IR spectra of many polyatomic molecules such as the above can be found in a beautiful book by R. M. Silverstein, G. C. Bassler and T. C. Morrill, Spectrometric identification of organic compounds, John Wiley and Sons, 1991, New York. The three IR spectra have been given from Silverstein et al.'s book.

We have not included Raman spectroscopy in this lecture and will hopefully cover some of it in the future years.

NPTTEL/ITM