

Due April 1, 1999

1. Sketch the normal modes of H_2O . Describe how the normal modes of HOD differ from those of H_2O .
2. Sketch the normal modes of CH_4 and CH_3D and indicate which are IR and which are Raman active.
3. Problem 16.5 from "exercises".
4. Problem 1.8 from "problems".
5. Problem 16.11 from "problems".