1. Comparison of Interpolation Scheme in the treatment of collisional transfer of rotational line width.

2. Evaluation of molecular quadrupole moments of N₂, H₂ and CO₂ from the broadening of rotational lines of highly asymmetric molecule C₂H₄O.

3. On the consideration of phase shift effect in rotational transitions in the microwave region.

4. Temperature dependence of pressure broadened Microwave Line Widths of some rotational lines of Carbonyl Sulphide.

5. Self broadening of rotational lines on linear molecules.

6. On the consideration of phase shift effect of rotational transitions in the microwave...
7. Temperature dependence of pressure broadening line width in the microwave region for self broadening of OCS.

Under the faculty improvement programme of UGC New Delhi India held at Chemistry Department of CMP Degree College, University of Allahabad, Allahabad from Nov.25-26, 1978, INT 4.9.

8. Comparison of Interpolation schemes in the treatment of collisional transfer of rotational energy.

Under the faculty improvement programme of UGC New Delhi India held at Chemistry Department of CMP Degree College, University of Allahabad, Allahabad from Nov.25-26, 1978, INT 4.11.

9. Evaluation of molecular quadrupole moments of N₂, H₂ and CO₂ from the broadening of rotational lines of highly asymmetric molecule C₂H₄O.

10. On the calculation of microwave line width of CH₃Br,JK=0,0 perturbed by H₂,N₂,O₂ and CO₂.