MOLECULAR SYMMETRY AND QUANTUM MECHANICS

TAUGHT BY

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COURSE TOPICS

1. symmetry of objects
   - point groups
   - calculus of symmetry
   - reduced and irreducible representations
   - great and little orthogonality theorems (GL)

2. group theory and quantum mechanics
   - LCAO - SALC approach in MO theory
   - applications (GL)

3. special topics
   - applications to ligand field theory

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- pericyclic reactions
- normal mode analysis of vibrational motion, etc. (9L)

4. continuous (lie) groups and applications. (2L)

TEXT BOOKS

1. Chemical applications of group theory ; cotton.
2. group theory and quantum mechanics ; tinkham.