

2018

4.8.2020

MAY

Week 19

128-237

# MOLECULAR SYMMETRY AND QUANTUM MECHANICS

Tuesday

08

9 TAUGHT BY

10 • prof. harjinder singh

## COURSE TOPICS

11 1. Symmetry of objects

1 • point groups

2 • calculus of symmetry

3 • reduced and irreducible representations

4 • great and little orthogonality theorems (GL)

5 2. group theory and quantum mechanics

6 • LCAO - SALC approach in MO theory

7 • applications. (GL)

8 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)

### TEXTBOOKS

1. Chemical applications of group theory; Cotton.

2. group theory and quantum mechanics; tinkham.

MAY  
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