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Introduction to Quantum Chemistry

Instructor
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Department: SSCU

Course Time:
Lecture venue:
Detailed Course Page:

Announcements

Brief description of the course
Entering Graduate students in Chemistry, Chemistry and Physics Undergraduates.

Prerequisites
Understanding of Quantum Mechanics, Basic Mathematics

Syllabus
Exact Solutions (revision)
Perturbation Theory (Time dependent and independent)
Hartree Fock Methods (Formalism and SCF procedure)
CI, MP
DFT

Semiempirical Methods

Course outcomes
How quantum mechanics determines molecular shape; how molecular properties are computed.

Grading policy
Typical: 10% Assignments, 20% Quizzes, 35% Midterm, 35% Endterm
Assignments

Resources
Landau and Lifshitz
Schiff,
Cohen Tannoudji,
Szabo and Ostlund
Levine