

Course Outline

Course: Quantum Mechanics 1-Section I

Instructor: Dr Alakabha Datta

Office: 121-B Lewis Hall

Meeting: M-W-F 10-10.50 pm at Lewis 126

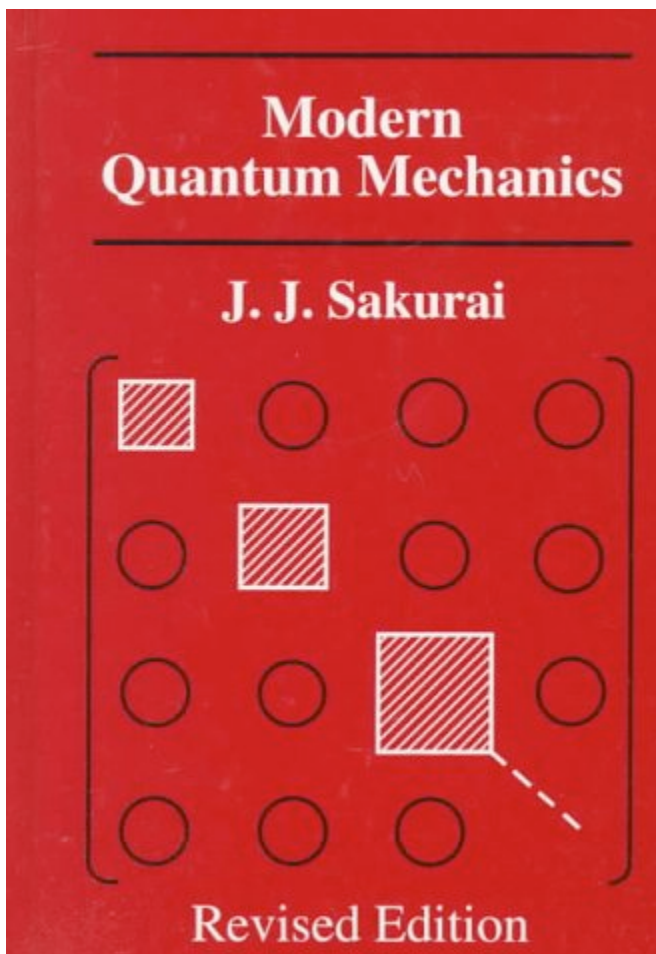
Office Hours: By Appointment

Email: datta@olemiss.edu, datta@phy.olemiss.edu

Phone: (662) 915-5611

Course homepage: Check Blackboard.

Book



Course Goals: Learning the basic postulates and rules of Quantum Mechanics and learning to apply them to solve problems in various areas of research.

Independent study: The course will also involve solving problems that will require students to research material on published journals to complete the project. The purpose of this is to help the student acquire skills to pursue independent research.

Marking:

Homework: 60 %

Mid Term Report: 15%

Final Exam: 25%

Friday Dec 7, 2007 at 8am (See Class Schedule)

An overall course average of the following percentages will guarantee the corresponding letter grade:

90% A

80% B

70% C

60% D

Topics Covered in course: Topics will be taken from the first 3 chapters and part of chapter 5. Topics include fundamental concepts of Quantum Mechanics, Quantum dynamics, theory of angular momentum and perturbation theory.