

Physics 262Q: Quantum Mechanics II

Spring, 2003

Instructor:

- Kyungseon Joo (6-4469; kjoo@phys.uconn.edu; Room P-410)

Lectures:

- Monday, Wednesday and Friday, 10:00 - 10:50 a.m., Rm. MSB 407

Office Hours:

- Monday, Wednesday and Friday, 11:00 - 11:50 a.m., Rm. P410 or appointments

Grading:

- Weekly homeworks(30%), Midterm(30%), Final Exam (40%)

Text:

- “Introduction to Quantum Mechanics”, David J. Griffiths (Prentice-Hall)

Recommended books:

- “Modern Quantum Mechanics”, J.J. Sakurai (Addison Wesley)
- “Quantum Physics”, Stephen Gasiorwicz (John Wiley & Sons)
- “The Principles of Quantum Mechanics”, Paul Dirac (Oxford U. Press)

Course Outline:

- Periodic Potentials and Band Structure
- Time-Independent Perturbation Theory
- Variational Principle
- The WKB approximation
- Time-dependent Perturbation Theory
- Scattering theory