National Cheng Kung University Department of Physics

Course: Atomic and Optical Physics (L283400)
Spring 2011

Course Information

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Course Contents:
1. Review of quantum mechanics
2. Hydrogen atom
3. Classical radiation fields
4. Time-dependent perturbation theory
5. Density matrix approach
6. Two-photon excitations
7. Laser spectroscopy
8. Atom optics on laser cooling and trapping

Pre-requirements:
Quantum Mechanics and Classical Electrodynamics

Reference Books:

Grades:
The mid-term exams weight 60% and an oral presentation on a journal weights 40%