

<Calendar>

- 1st week** : Chap. 1. Introduction
Chap. 2 The Wave-Particle Duality
- 2nd week** : Chap. 3 The Schödinger Equation
Chap. 4 Solution of the Schödinger Equation for Four Specific Problems
- 3rd week** : Chap. 5 Energy Bands in Crystals
- 4th week** : Chap. 6 Electrons in a Crystal
- 5th week** : Chap. 7 Electrical Conduction in Metals and Alloys
- 6th week** : Chap. 8 Semiconductors
- 7th week** : <Midterm Exam>
- 8th week** : Chap. 9 Electrical Properties of Polymers, Ceramics, Dielectrics,
and Amorphous Materials
- 9th week** : Electromagnetic Theory : Maxwell Equations, Light Waves
(Electrons in Solids, 3rd Ed., R. H. Bube)
- 10th week** : Chap. 10 The optical constants
Chap. 11 Atomistic Theory of the Optical Properties
- 11th week** : Chap. 12 Quantum Mechanical Treatment of the Optical Properties
Chap. 13 Applications
- 12th week** : Chap. 14. Foundations of Magnetism
Chap. 15. Magnetic Phenomena and Their Interpretation- Classical Approach
- 13th week** : Chap. 16. Quantum Mechanical Considerations
Chap. 17. Applications
- 14th week** : <Final exam>