

Syllabus
ECE352: Properties of Electronic Materials
Spring 2005

Instructor: Prof. Yong-Hang Zhang
Where: PS A 104
When: MWF 1:40 - 2:55 PM
Office Hours: MW 3:15 - 4:00 PM
TTh 2:00 - 3:30 PM
or by appointment.
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Prerequisite

CHM 114 or 116, MAT 274, PHY 241

Course Objectives

Students will be introduced to the electronic properties of materials and will learn semiconductor physics and the qualitative principles of solid-state devices.

Textbooks

Official

Electronic Materials and Devices, David K. Ferry and Jonathan Bird, Academic Press, San Diego, 2001.

Supplement

Electrical Properties of Materials (7th edition), L. Solymar & D. Walsh, Oxford Science Publications, 2004.

Advanced Semiconductor Fundamentals (2nd Edition), Robert F. Pierret, Prentice Hall, 2003.

Class notes

Class notes will be posted on <ftp://ece352:ece352@asumbe.eas.asu.edu>

Grading

Homework: 20%.

2 Midterm Tests: 40% (20% each)

Final Exam: 40% (Final Schedule: Wed., May 11, 2:40-4:30 PM.)

The exam and tests will be held with closed book and closed notes.

Homework Assignments

Homework assignments will usually be given in class and posted on the class web page <ftp://ece352:ece352@asumbe.eas.asu.edu> as well. They are due before the start of class on the following Monday. Any submission after the class is started will be considered to be late and 20% of the earned points will be deducted. No acceptance of any submission after the instructor leaves the classroom. Your corporation will be highly appreciated.