PHYS 545, Solid State Physics

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Prerequisites: Physics 416/515 or equivalent, and Physics 460/550 or equivalent.

Text: Required: *Introduction to Solid State Physics, 8th Ed.* By Charles Kittel
The tests are open textbook so you must have access to a physical copy of Kittel
(print out is OK, but not electronic because you can’t have open laptop during
test).
Recommended:
*Solid State Physics, 2nd Ed.* by J. R. Hook and H.E. Hall (easier)
*The Solid State: An Intro. to the Physics... 3rd Ed.* By H.M. Rosenberg (easier)
*Solid State Physics* N. Ashcroft and D. Mermin (advanced)

Website: http://www.physics.purdue.edu/~robichf/class.htm
This site will have the class notes, homework, test dates, solutions, etc. There’s
also links to other Solid State sites.

Homework: Homework will be due each by midnight Wed. Homework turned in Thurs. will
be worth ½ credit. Homework turned in Fri will be worth ¼ credit. Homework
turned in after Fri will be graded but will be worth 0 credit. I strongly suggest you
not look at the answers before turning in homework. Copying solutions from
other students or from the web violates academic honesty.

Grading: Homework 20%, 2 Midterms 25% each, Final 30%

Topics: See class web page for likely emphasis.