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  
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](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 Wed. at the beginning of class. Homework turned in after I start class will be worth ½ credit. Homework turned in Thurs will be worth ¼ credit. Homework turned in after Thurs 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.