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## The oxford solid state basics pdf

@book{Simon:1581455, author = Simon, Steven H, title = {The Oxford solid state basics}, publisher = Oxford Univ. Press, address = Oxford, UK, year = 2013, url = } The study of solids is one of the richest, most exciting and most successful branches of physics. While the theme of solid state physics is often seen as dry and tedious, this new book presents the topic instead as an exciting exposition of fundamental principles and great intellectual discoveries. Beginning with a discussion on how the study of the thermal capacity of solids inaugurated the quantum revolution, the author presents the key ideas of the field while emphasizing the underlying deep concepts. The book begins with a discussion of the Einstein/Debye model of specific heat, and the Drude/Sommerfeld theories of electrons in solids, all of which can be understood without reference to any underlying crystalline structure. The failures of these theories force a more serious investigation of the microscopic. Many of the key ideas about waves in solids are then introduced using one-dimensional models in order to convey concepts without getting bogged down in detail. Only then does the book turn to consider real materials. Chemical bonding is introduced and therefore atoms can be bound together with crystalline structures and reciprocal results of space. Diffraction experiments, as a central application of these ideas, are discussed in depth. From there, the connection is made to the diffraction of the electronic wave in the solids and how it translates into the electronic structure of the bands. The natural culmination of this thread is the triumph of physics and semiconductor devices. The final section of the book considers magnetism in order to discuss a number of deeper concepts. The failures of band theory due to electronic interaction, spontaneous magnetic orders, and petty field theories are well presented. Finally, the book provides a brief exposition of the hubbard model that college students can understand. The book presents all this material in a clear way, full of explanatory notes or simply funny. This could be the best introductory book to learn solid state physics. It's definitely the funniest to read. This fall I'm going to take solid state physics, and while I usually prefer textbooks to classes, Ashcroft and Mermin are too dense for me to read as more of a reference and for practice problems, and unfortunately MIT OCW doesn't have as much material available for condensed matter as it tends to other physics courses. I found this series of conferences very engaging. The professor is funny and motivated the lessons. The book that best follows this series is its textbook for undergraduates, but it starts with an approach similar to Ashcroft and Mermin (but better, in my opinion) as it presents presents to heat capacity models sequentially, showing how each improvement adhered better to the data than the previous model. I can't wait to continue his series. This series of lectures is a first degree course in solid state physics held in an engaging and entertaining manner by Professor Steven H. Simon of the University of Oxford. Standard topics such as crystal structure, reciprocal space, free electrons, band theory, phonions, and magnetism are covered. The sequence of lessons corresponds to that of the book The Oxford Solid State Basics (OUP, 2013). Academia.edu cookies to personalize content, personalize ads, and improve the user experience. By using our site, you accept our collection of information through the use of cookies. To learn more, check out our Privacy Policy.× Add a review and share your thoughts with other readers. Be the first one. Add a review and share your thoughts with other readers. Be the first one. Before.

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