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The Oxford Solid State Basics StevenH. Simon University of Oxford OXFORD UNIVERSITY PRESS. Contents 1 About Condensed Matter Physics 1 1.1 WhatIs CondensedMatterPhysics 1 1.2 WhyDoWeStudyCondensedMatter Physics? 1 ... The Oxford solid state basics Subject: Oxford, Oxford Univ. Press, 2013 Keywords:

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Solid State Physics is a textbook for students of physics, material science, chemistry, and engineering. It is the state-of-the-art presentation of the theoretical foundations and application of the quantum structure of matter and materials.

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The standard undergraduate text is Introduction to Solid State Physics by Kittel. The standard introductory graduate text is Solid State Physics by Ashcroft & Mermin. For more in-depth but very didactic coverage of specific topics in solid state physics, I recommend any of the books in the Oxford Master Series.

### What are the classic textbooks for the theory of solids

While the subject of solid state physics is often viewed as dry and tedious this new book presents the topic instead as an exciting exposition of fundamental principles and great intellectual breakthroughs.

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#### Steven H. Simon-The Oxford Solid State Basics-Oxford

Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity  $\hat{l}$  is equal to  $\hat{l}$ 4st,where $\hat{l}$ 4s is the shear mod- ulus and t is a characteristic time of motion of each water molecule; t is expected to be of the order of the period of molecular vibration T in ice:  $t = c1T = 2\vec{l} \in c1$ / $\vec{l}$ 8,where $\vec{l}$ 8 = c2 /mea2 B

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## The Oxford Solid State Basics by Oxford University on

There will be no required text for this course, but we will use last quarter's text from 123A, The Oxford Solid State Basics by Steve Simon, sometimes for reference. Notes on all lectures will be provided in pdf form (see syllabus below).

## **Physics 123B: Condensed Matter Physics**

The Oxford Solid State Basics This lecture series constitutes a first undergraduate course in solid state physics delivered in an engaging and entertaining manner by Professor Steven H. Simon of Oxford University.

### 01. Introduction to Condensed Matter; Einstein Model of

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