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M.A. Wahab (Author of Solid State  
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This book is so unbelievably crystal clear that its like the author has sat down with you and talks to you. Its explains concepts extremely well both from a conceptual point of view as well as

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equations and formulas. This book is THE ABSOLUTE best solid state physics you will find in the history of humanity PERIOD.

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solids. We will begin by characterizing the properties of static (crystal structure) and dynamic (lattice vibrations) arrangements of atoms.

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section is based on 'Elementary Solid State Physics' by M. Ali Omar. Addison

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Wesley. The intention is to supplement Kittel (ed. 7 or 8) chapter 2. Three laboratory exercises were added by Hans Weber in February 2001. During recent years the document has been split into separate parts but since 2014 it is back as a single document.

## **Solid State Physics: Structure and**

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Solid-state physics. Solid-state physics is the study of rigid matter, or solids, through methods such as quantum

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mechanics, crystallography, electromagnetism, and metallurgy. It is the largest branch of condensed matter physics. Solid-state physics studies how the large-scale properties of solid materials result from their atomic-scale properties.

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This was one of the course textbooks for the "Intro to Solid State" physics courses. The other was Condensed Matter Physics by Marder. I found that Ashcroft and Mermin was a bit clearer as a very first introduction than Marder. Marder goes well with A&M, but I think A&M functions better as a stand alone textbook as an introduction.



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## **Introduction to Solid State Physics**

Elementary Solid State Physics..  
Principles And Applications M. A.  
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- Solid State Physics, 2nd ed by J. R.

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Hook and H. E. Hall, Wiley This is frequently the book that students like the most. It is a first introduction to the subject and is much more introductory than Ashcroft and Mermin. •The Solid State, by H M Rosenberg, OUP This slightly more advanced book was written a few decades ago to cover what was ...

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lattice and crystal structures, bonding, packing and diffusion of atoms followed by imperfections and lattice vibrations.

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INSTRUCTOR: M. S. Dresselhaus. STAFF:  
Oded Rabin -- Head TA; Room 13-3025  
oded@mgm.mit.edu; Marcie Black -- TA

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assistant; Room 13-3041

mrb@mgm.mit.edu; Yu-Ming Lin -- TA

assistant; Room 13-3037

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