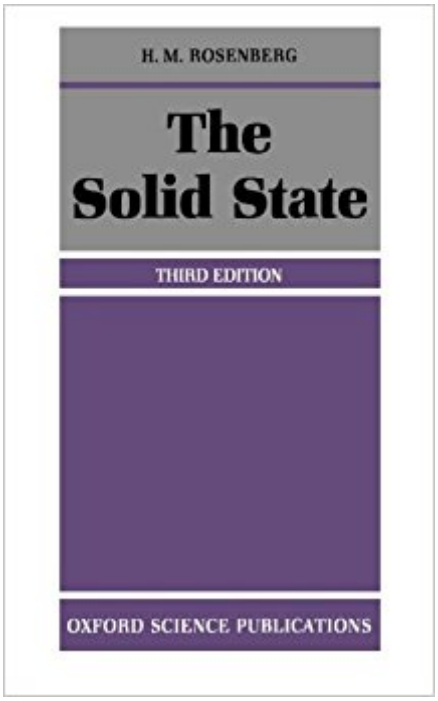
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The Solid State: An Introduction To The Physics Of Crystals For Students Of Physics, Materials Science, And Engineering (Oxford Physics Series)



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Synopsis

Designed as an introduction to solid-state and condensed-matter physics, this textbook is ideal for one-semester graduate and advanced undergraduate courses in materials science. The new third edition includes a chapter on the properties of amorphous solids, and discusses recent progress in such areas as basic crystal structure, superconductivity, diffraction, defects, dislocations, specific heat, phonons, thermal and electrical conductivities, and the field of solid-state studies. Many textual changes have been made to clarify certain points and short sections have been added on low-dimensional semiconducting structures and on magnetic materials. Extra problems have been added and answers to all problems are provided. The presentation is direct and to-the-point, proceeding straight to the core topics in the field.

Book Information

Series: Oxford Physics Series (Book 9)

Paperback: 326 pages

Publisher: Oxford University Press; 3 edition (May 19, 1988)

Language: English

ISBN-10: 0198518706

ISBN-13: 978-0198518709

Product Dimensions: 8.5 x 0.7 x 5.4 inches

Shipping Weight: 15.5 ounces (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 6 customer reviews

Best Sellers Rank: #166,037 in Books (See Top 100 in Books) #7 inÃ Â Books > Science & Math > Chemistry > Crystallography #10 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State #30 inÃ Â Books > Science & Math > Physics > Solid-State Physics

Customer Reviews

’looks clear, direct, and is simply, but effectively, presented.’ New Scientist

H. M. Rosenberg is at St. Catherine’s College, Oxford.

Overall this is a concise presentation of solid state material science. If your new to the field or need a refresher this is a nice text, but buy a used copy because ~$100 is excessively overpriced. The author states that the text has kept the mathematics to a minimimum and he means it! If your

looking for a rigourus mathematical presentation this is not the text. I also have to note that scientist from the UK are really good at delivering information clearly.

When reading books of solid state physics, apart from the mathematics and quantum mechanics, the overall understanding is much influenced from solid knowledge of the fundamental concepts. This is the book you should read before embarking in deeper study of the physics of solid state. Indeed, this book is a gem; it clarifies all the basics, and is highly satisfactory in breadth and depth. It is also excellent for reviewing. THe book is very actual in the topics selection, concise, pretty self-contained and, above all, thin. It also has a very nice section on amorphous materials that is not commonly found in introductory solid state books. I hope you will enjoy it as much as i did!

I used this book to teach an advanced undergrad/intro graduate solid state course in materials science. The students really liked it and I enjoyed the homework problems, they really drill concepts into the students. Great text!

I also used this book as a physics graduate student. The book is useful for materials physicists who want a more pictorial, textual description before diving into mathematical treatment of the subject material. Or, very useful as a companion to a more rigorous text.

This book is short, easy to read, yet it gives the reader a simple but clear picture of the solid state. It was used as a reference book for the introductory solid state physics course which I took in my first year of graduate study at Harvard. I enjoyed the book a lot.

A small and easy to understand text, not too much math

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