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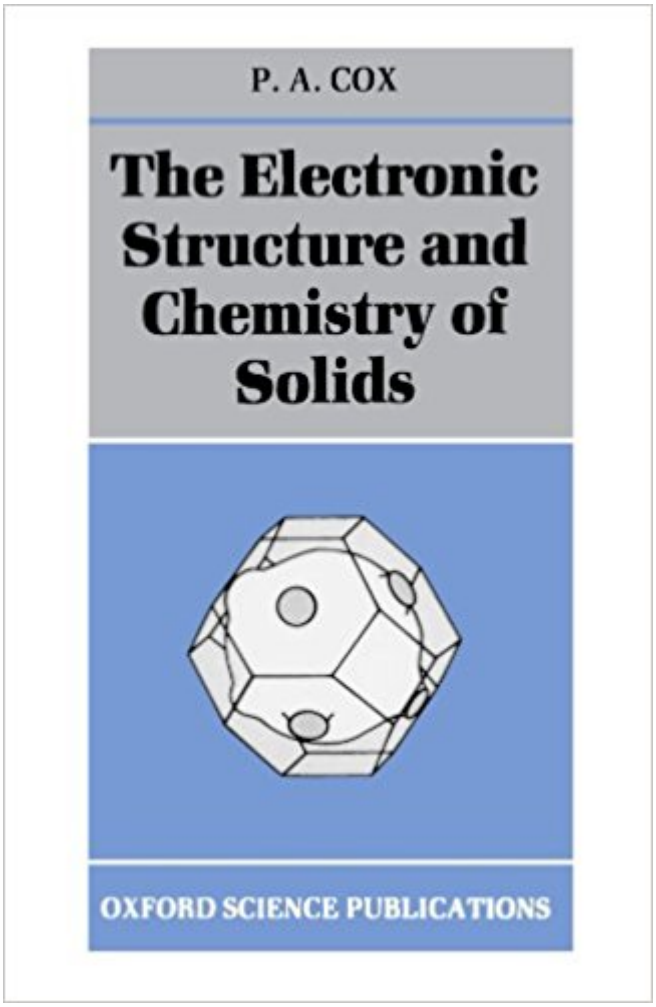

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Synopsis

This book is the first to describe the chemical aspects of the electronic structures of solids in terms familiar to chemists and materials scientists. The first three chapters give an elementary account suitable for undergraduate students with a grounding in inorganic and physical chemistry; later chapters discuss more advanced aspects, including topics of current research interest such as metal-insulator transitions, low-dimensional solids and 'molecular metals,' and the properties of surfaces. A wide variety of examples are cited throughout the text to further clarify the discussion for students and for researchers in chemistry, materials science, and solid state electronics.

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Customer Reviews

'In conclusion, this book presents a useful overview of the electronic structure and related properties of solids. It gives a well balanced account of the theory, and numerous examples of applications which will be of interest to chemists.' Chemistry in Britain'P. A. Cox has brought considerable skill to the task of familiarizing chemists with the electronic structure of solids. Angewandte Chemie'This very useful book removes the mystique from those areas of solid-state physics that seem impenetrable to chemists ... It is sound and reliable.' The Times Higher Education Supplement'This covers an interesting range of subjects. The book is well written, illustrated and produced.' Suid-Afrikaanse Tydskrif vir Wetenskap

P. A. Cox is at University of Oxford.

Great book!

The book was in good condition and the explanations provided were explicit and suitable for graduate students. A must read book.

shin@nirin.go.jp A great work in explaining the electronic structure of mainly, oxides. Reading the book as an materials researcher, it contains most of basics to understand the physical properties of functional materials related to their electronic structures.The author used simple and clear words in the text, Esp, the ch. 4 is very well written to be a good introduction to the band theory for who are based on chemistry.Only the bad is that data and refs in this book are somewhat old and necessary to be updated. So I rate this as four stars. I already read a book translated in japanese,and I recommend this also, very well done with great care.

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