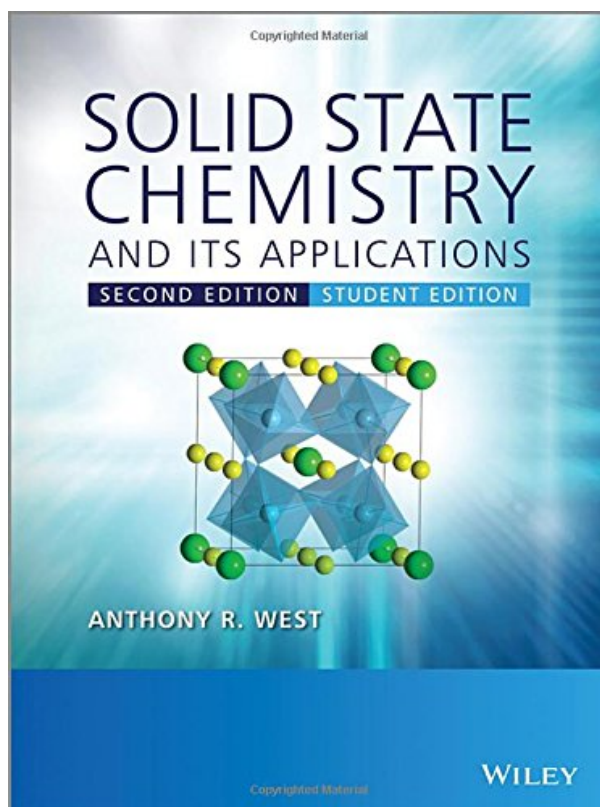


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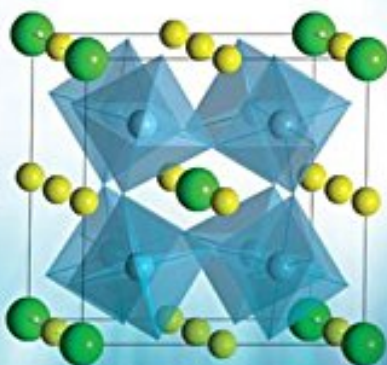


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Solid State Chemistry and its Applications, 2nd Edition: Student Edition is an extensive update and sequel to the bestselling textbook *Basic Solid State Chemistry*, the classic text for undergraduate teaching in solid state chemistry worldwide.

Solid state chemistry lies at the heart of many significant scientific advances from recent decades, including the discovery of high-temperature superconductors, new forms of carbon and countless other developments in the synthesis, characterisation and applications of inorganic materials. Looking forward, solid state chemistry will be crucial for the development of new functional materials in areas such as energy, catalysis and electronic materials.

This revised edition of *Basic Solid State Chemistry* has been completely rewritten and expanded to present an up-to-date account of the essential topics and recent developments in this exciting field of inorganic chemistry. Each section commences with a gentle introduction, covering basic principles, progressing seamlessly to a more advanced level in order to present a comprehensive overview of the subject.

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- Revised coverage of electrical, magnetic and optical properties, with additional material on semiconductors, giant and colossal magnetoresistance, multiferroics, LEDs, fibre optics and solar cells, lasers, graphene and quasicrystals.
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Nicely done!

By JD

This book is an excellent and up-to-date survey of the field of solid-state chemistry. The text is readable, and essentially free of typos and other distractions. The sections on crystal lattices and structure are very well illustrated -- an especially important feature, since an understanding of crystal chemistry requires the student to have a good grasp of 3-D features. The section on bonding develops material at the detailed atomic level, and then uses the concepts of Molecular Orbitals (MOs), HOMOs, and LUMOs to explain bonding concepts. The sections on Electrical Properties, Magnetic Properties, and Optical Properties are well-done (and again well-illustrated), and would provide excellent material for understanding semiconductors, dielectrics, and lasers. All in all, a superb addition to the chemistry professional's bookshelf.

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By Francisco Palacios

Some time ago, I got the previous edition of this book by Anthony R. West, and in that lapse, it clearly satisfy my demands on the topics of the solid state chemistry. What I really love about this new edition (that I'm currently using for my classes) is that is colored. Believe me, that visuals are important in these kind of topics if you really wish to appreciate all the details in crystal structures.

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