



Basic Solid State Chemistry

By Anthony R. West

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Basic Solid State Chemistry, Second Edition is a thorough revision of this best selling introductory text. This new edition provides the reader with an up to date account of the essential topics in this exciting and developing area. Whilst the structure of the first edition has been retained, introducing topics in a logical and coherent way, the text has been revised to include latest developments and concepts. There is a new chapter on Synthetic Methods covering solid state, precursor, chemie douce, intercalation, gas phase (MOCVD, vapour phase transport), hydrothermal and other methods. In addition there is new material on fullerenes, spinels and applications of phase diagrams. The coverage of solid solutions has been expanded and many of the diagrams have been considerably improved, as have the examples and problems.

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Editorial Review

Review

"..an excellent text for undergraduates specialising in the area..cannot be beaten for its informed coverage of a key subject area.", Professor Mark Weller, Head of the Inorganic Materials and Solid State Chemistry research group at the University of Southampton, The Alchemist, August 1999#

From the Back Cover

Solid state chemistry is a rapidly developing subject. In keeping with the pace of new ideas, this Second Edition provides the reader with an up-to-date account of essential topics and exciting new concepts.

Features:

* New chapter on Synthetic Methods, covering solid state, precursor, chimie douce, intercalation, gas phase and other methods.

* New and expanded coverage of fullerenes, solid solutions, superconductivity, ionic conductivity, diamond films, amorphous silicon, electrochromic displays, solid oxide fuel cells.

* Many new examples, and increased number of student problems; worked answers available to course lecturers and tutors.

Basic Solid State Chemistry, Second Edition is suitable for students taking a first course in solid state chemistry.

Reviews of the First Edition:

"Professor West is to be congratulated on producing a text at the right level and with the right approach to render it an ideal course book for undergraduate studies in Solid State Chemistry and Materials Science." Acta Crystallographica, (1990), B46, 447

"This book is clearly produced with excellent diagrams and well labelled figures." Chemistry in Britain, March 1989

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