

book reviews

Works intended for this column should be sent direct to the Book-Review Editor, whose address appears in this issue. All reviews are also available from **Crystallography Journals Online**, supplemented where possible with direct links to the publisher's information.

books received

The following books have been received by the Editor. Uncritical notices are given under this heading instead of reviews in order to facilitate rapid communication.

Solid state chemistry: an introduction.

3rd Edition. By Lesley E. Smart and Elaine A. Moore. Pp. 407. Boca Raton: Taylor and Francis CRC Press, 2005. Price (soft-cover) USD 69.95. ISBN 0 748 77516 1.

Building a foundation with a thorough description of crystalline structures, the book presents a wide range of the synthetic and physical techniques used to prepare and characterize solids. Single-crystal X-ray diffraction has now been reduced to make way for a wider range of other techniques. The authors have added sections on fuel cells and electrochromic materials; conducting organic polymers, organic superconductors and fullerenes; mesoporous solids and ALPOs; photonics;

giant magnetoresistance (GMR) and colossal magnetoresistance (CMR); and p-wave (triplet) superconductors. The book also includes a completely new chapter, which examines the solid-state chemical aspects of nanoscience. Each chapter contains a set of review questions and an accompanying solutions manual is available. *Contents:* 1, Introduction to crystal structures; 2, Physical methods of characterizing solids; 3, Preparative methods; 4, Bonding in solids and electronic properties; 5, Defects and non-stoichiometry; 6, Carbon-based electronics; 7, Zeolites and related structures; 8, Optical properties of solids; 9, Magnetic and dielectric properties; 10, Superconductivity; 11, Nanoscience.