

## 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.

**Introduction to XAFS. A Practical Guide to X-ray Absorption Fine Structure Spectroscopy.** By Grant Bunker. Pp. viii + 260. Cambridge University Press, 2010. Price (hardback) GBP 40. ISBN-13: 978-0-521-76775-0.

X-ray absorption fine-structure spectroscopy (XAFS) is a powerful and versatile technique for studying structures of materials in chemistry, physics, biology and other fields. This textbook is a comprehensive practical guide to carrying out and interpreting XAFS

experiments. Assuming only undergraduate-level physics and mathematics, the textbook is suited for graduate students in physics and chemistry starting XAFS-based research. It contains concise executable example programs in *Mathematica*7. Supplementary material available at <http://www.cambridge.org/9780521767750> includes *Mathematica* code from the book, related *Mathematica* programs, and worked data analysis examples. The textbook addresses experiment, theory and data analysis, but is not tied to specific data analysis programs or philosophies. This makes it accessible to a broad audience in the sciences, and a useful guide for researchers entering the subject. *Contents:* 1. Introduction; 2. Basic physics of X-ray absorption and scattering; 3. Experimental; 4. Theory; 5. Data analysis; 6. Related techniques and conclusion; References; Appendices; Index.