TUNELL (G.) and MURDOCH (J.). *Introduction to Crystallography*, 2nd edn. London (Freeman), 1964. vii+58 pp. Price: 20*s*.

This book is a first course laboratory manual for students of mineralogy and petrology, and a reissue of a book previously published by W. C. Brown and Company in 1957. After a brief introduction to the stereographic projection, zones, axial angles, and axial ratios in crystals (12 pp.), the 32 crystal classes are described in terms of the forms present and their stereograms (19 pp.). The remainder of the book is concerned with the calculation of axial angles, axial ratios, and Miller indices. It is perhaps unfortunate that this section starts with the triclinic system, although the authors' use of polar axial elements (V. Goldschmidt) reduces the number of oblique spherical triangles that have to be solved. The hexagonal system is treated next and the student left to derive corresponding equations for the remaining crystal systems. The information given is clearly presented but might have been extended to cover each crystal system separately, together with more data on zone relationships. A 14 cm stereographic set is contained in the rear pocket of the book and an appendix lists minerals arranged according to crystal systems and symmetry classes. T. W. BLOXAM

Notice of Books

BETECHTIN (A. G.) [BETEKHTIN (A. G.)]. *Lehrbuch der speizellen Mineralogie*. Leipzig (VEB Deutscher Verlag für Grundstoffindustrie), 1964, 679 pp.

BREWER (R.). *Fabric and Mineral analysis of soils*. London (Wiley), 1964, xiii+470 pp. Price: 113*s*.

RANKAMA (K.), editor. *The Quaternary*. Volume 1. London (Interscience Pub.), 1965, xxii+300 pp. Price: 113*s*.

WHITE (J. E.). *Seismic waves*. London (McGraw-Hill), 1965, xv+302 pp. Price: 116*s*. T. W. B.