

BOOK REVIEWS

PAULITSCH (P.), editor. *Experimental and natural rock deformation. Experimentelle und natürliche Gesteinsverformung*. Berlin, Heidelberg, and New York (Springer-Verlag), 1970. x+525 pp., 255 figs. Price DM 94 (\$25.90).

This is a collection of twenty-one original papers that constitute the proceedings of a two-day International Symposium held at Darmstadt in February 1969. It is dedicated to Professor B. Sander in honour of his 85th birthday.

The contributions are international in their authorship, nine of the papers being written in German, some of which have an English abstract, the remaining twelve being in English. Six papers deal with aspects of X-ray petrofabric analysis and the processing of X-ray and optical data by computer. Nine papers present new information concerning the experimental deformation of calcite, anhydrite, galena, sphalerite, plagioclase, and quartz together with a report on the use of the Electron Scanning Microscope in the study of fine-grained fabrics. The remaining six papers come under the heading of 'field work' but range in subject-matter from the structural geology of areas in Scandinavia, the eastern Alps, and Canada to a review of the possible orientating mechanisms of γ -olivine and a discussion of the analysis of grain shapes in rocks. Authors and titles are listed in full in M.A. 71-829.

The papers generally present new and useful information concerning techniques of analysis and the results of both natural and experimental deformation of certain rocks and mineral species. The general approach, however, is somewhat 'Sanderian' and those sections concerned with natural deformation of rocks lack, with notable exceptions, a firm link with the structural environment.

The book will be useful to specialists in the fields of structural geology and experimental rock deformation.

D. POWELL

SINKANKAS (J.). *Prospecting for Gemstones and Minerals*. London and New York (Van Nostrand-Reinhold), 1971. xviii+397 pp., 133 figs. Price £3.50.

In recent years amateur mineralogists and collectors have learnt to appreciate and respect the writings of John Sinkankas. Their convictions will be strengthened by this, the second edition of his work, first published in 1961 under the title: *Gemstones and Minerals. How and Where to Find Them*. This new edition is updated by the inclusion of new techniques, the expansion of certain sections, and the exclusion of recently outdated material.

The book has been written for the budding American mineralogist and its uses to his British-based counterpart are therefore limited. The latter will find the explanation of the Township Range System, used on American maps, to be of little direct value, nor will certain of the appendices, including the lists of American reference libraries, be of use to him. The British mineralogist should also be aware of the American style of spelling of the names of certain minerals, e.g. 'barite' instead of 'baryte'.