Short Notices

The Physics of Selenium and Tellurium

W. C. Cooper (editor)

Pp 380 (Pergamon Press, 1969) 140*s*

This volume is the Proceedings of an International Symposium held in Montreal, Canada. It gathers together some important advances which have been made in recent years. The contributions are divided into four major headings, viz: Band structure, Crystal growth and characterisation, Optical properties and Electrical properties. Of particular significance is the work reporting growth and properties of single crystal selenium. The book has a most pleasing presentation and should serve as an important stimulus for further research.

M.E.E.

Proceedings of the British Ceramic Society No. 13 Clay and other Colloidal Systems

Pp 141 (Published by the Society, June 1969) 42*s*

This volume contains twelve original papers that were presented at a Joint Meeting of the Basic Science Section of the British Ceramic Society and the Clay Minerals Group of the Mineralogical Society held in London on 17/18 December 1969. Many of the papers will be of special interest to those concerned with the basic science of civil engineering materials.

R.L.B.

Electrical, Magnetic and Visual Methods of Testing Materials

J. Blitz, W. G. King, D. G. Rogers

Pp 202 (Butterworths, 1969) 65*s*

This book concentrates on three general methods of non-destructive testing: eddy current methods, liquid penetrant methods and magnetic particle testing, with over one third of the book devoted to the last-named. One or two other techniques are mentioned, but so briefly that it would have been better had the title of the book been more specific.

R.L.B.

II – VI Compounds

B. Ray

Pp 268 (Pergamon Press, 1969) 80*s*

This excellent book extends the work already reported in the "Physics and Chemistry of II–VI Compounds" edited by Aven and Prenner (North Holland Publishers, 1967). The text is clearly written and much of the theory is derived from first principles which makes it eminently suitable for final year honours courses, post-graduate students, and those about to engage on research on these compounds.

The book deals with crystallography, bonding, growth, optical and transport properties, luminescence and photoconductivity. The final chapter is valuable as it deals with the exploitation of the II–VI compounds for a wide range of commercial purposes.

R.A.F.

Aspects of Adhesion 5

D. J. Alner (editor)

Pp 304 (University of London Press, 1969) 63*s*

Adhesion is a subject rather like corrosion in the sense that it is of wide importance in the application of materials, and yet comparatively little discussed in the regular meetings of materials scientists. Perhaps this is because both subjects involve the difficulties associated with surfaces. Chapters in the book deal with some of the diverse technologies which depend on adhesion including such unlikely companions as footwear manufacture, gummed paper tape and electronics. This volume contains the papers presented at the 1967 and 1968 Conferences held at the City University London; at the first the central theme was the testing of adhesive bonds, at the second it was the part played by surface energy in adhesion. As in previous volumes there is a mixture of science and technology which should appeal to all interested in the general field of adhesives, as well as giving a useful panoramic glimpse of the field to a newcomer. There are useful author and subject indices which cover the present as well as the previous four volumes in the series.

R.L.B.