

**Molecular spectroscopy.** Vol. 4. By (Senior Reporters) R. F. BARROW, D. A. LONG and J. SHERIDAN. Pp. viii+279. London: The Chemical Society, 1976. Price £17.25.

**Ion beam surface layer analysis.** Vol. 1. Edited by O. MEYER, G. LINKER and F. KÄPPELER. Pp. xxvi+494. Proceedings of the first half of the International Conference of September 1975, Karlsruhe, Germany. (About 40 papers.) New York: Plenum, 1976. Price \$83.40.

**Rare gas solids.** Vol. 1. Edited by M. L. KLEIN and J. A. VENABLES. Pp. xiii+607. London: Academic Press, 1976. Price £18.50, US \$46.75.

Only the final chapter of this book is concerned with crystallographic aspects. This, however, discusses the very interesting point that, despite the supposed theoretical

simplicity of these elements, there is still no generally accepted explanation as to why the preferred crystal structure of Ne, Ar, Kr and Xe is never h.c.p. but always f.c.c.

**Landolt-Börnstein. Numerical data and functional relationships in science and technology. Group III. Crystal and solid state physics. Vol. 7. Crystal structure data of inorganic compounds. Part e** By W. PIES and A. WEISS. Key elements  $d^9$ -,  $d^{10}$ -,  $d^1\dots d^9$ -,  $f$ -elements, *i.e.* Cu, Ag, Au, Zn, Cd, Hg, Lanthanoides, Actinoides, Ti, Zr, Hf, V, Nb, Ta. Substances No. *e1* to *e3525*. Pp. xxvii+739, Figs. 14. Berlin: Springer, 1976. Price (cloth) DM 680, US \$278.80.

The Landolt-Börnstein New Series Group III Volumes *7a*, *7g* and *7b* have already been published [for reviews see *Acta Cryst.* (1975). **A31**, 271 and 880; **B31**, 937 and 2752]. This part, *e*, gives data on over 3500 compounds containing Cu *etc.* as listed in the title.