

Book Reviews

LANDOLT-BORNSTEIN, NEW SERIES
Group III: Crystal and Solid State Physics
Wolfgang Pies and Alarich Weiss, Vol. 7, part a
(xxxii + 647 pp.) and Vol. 7, part g (457 pp.)
Crystal Structure Data of Inorganic Compounds
Editor in Chief: K. H. Hellwege
Springer-Verlag, Berlin-Heidelberg-New York,
1973 - 1974

These two volumes contain the main structural data of substances the crystal structures of which were examined by X-ray, neutron and electron diffraction techniques. In particular, Volume III/7a reports the crystallographic data of the halides and complex halides of the elements and Volume III/7g contains the references for the literature (years 1906 to 1972) cited in the crystallographic data tables of Volumes III/7a . . . f. In the text the inorganic compounds are described in tables having the following sequence: serial number, chemical formula, space group, lattice constants, number of formula units in the unit cell (Z), experimental and X-ray densities, structure type, crystal form, scope of the

structural determination, methods, literature data (with reference to Volume III/7g). 3820 halides and complex halides are described in Volume III/7a; a great deal of data are often reported for a single compound, in correspondence with different literature sources. When completed, the Volumes III/7 will furnish an excellent survey on the Inorganic Crystallochemistry which will be very useful to several researchers.

As regards the completeness of the information, a check is very difficult to be done, but data on some halides which are known to the reviewer have been examined and the results for the literature view given in Volumes III/7a and III/7g are very good.

Certainly these books represent a valuable and significant contribution to the Structural Inorganic Chemistry and Solid State Chemistry and Physics, and they are highly recommended to those researchers who wish to have complete tables of crystal data at hand.

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