

## BOOK REVIEW

INTERNATIONAL TABLES FOR THE DETERMINATION OF CRYSTAL STRUCTURES. EDITED BY C. HERMANN, W. H. BRAGG, M. VON LAUE. Vol. I Tables on the Theories of Groups, XII+452 pages, 464 figs. Vol. II Mathematical and Physical Tables, VIII+240 pages, 83 figs. Gebrüder Borntraeger, Berlin; Chemical Catalogue Co., New York. 1935. Price 33.—RM (paper); 40.—RM (bound).

This comprehensive work is the outgrowth of a conference of crystallographers and research workers in crystal structure in London in 1929. It forms an international standard reference work with a nomenclature to which all papers on crystal structure may be referred. The explanatory material preceding each chapter is repeated in German, English, and French; the major portion consists of tables and diagrams, with German context.

The scope and completeness of this work can be shown by a partial summary of the contents: Chapters I and II—A complete description of the Hermann-Mauguin system on nomenclature, with comparative tables of nomenclatures in common use. Throughout the text both Hermann-Mauguin and Schoenflies symbols are used. III—Survey of crystal classes. IV—Translation groups and transformations. V—Space groups. Each group is represented by two diagrams, one showing the distribution of symmetry elements, and the other the general positions of equivalent points. Coordinates of general and special positions are given, with the structure factor for the general positions and the laws of missing spectra. VI—Tables for space-group determination. VII—Point-symmetries. VIII—Lattice complexes. IX—Quadratic forms for  $\sin^2 \theta$ -values. X—Trigonometric and exponential functions. XI—Physical tables. A comprehensive article (in English) on intensity formulae; atomic form factors; absorption coefficients; ionic and atomic radii, etc. XII—Summary of graphical methods for evaluating diagrams and determining structures.

Through the cooperation of many workers, an enormous amount of data from widely scattered sources has been brought together in these two volumes. They represent a distinct contribution to the rapidly growing field of crystal structure. Not only will this compilation be of great convenience to structure workers, but it should put an end to the great variations which have existed with respect to nomenclatures, abbreviations, choice of axes and origins, etc.

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L. S. RAMSDELL

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### NOTICE

The Secretary's Office wishes to notify the membership of the Society that through an error the date for the Annual Meeting was given in the September issue of the *American Mineralogist* as December 27th-29th, 1935.

The Annual Meeting of the Mineralogical Society of America for 1935 will be held in the Waldorf-Astoria Hotel, New York City on

Thursday, December 26th

Friday, December 27th,

Saturday, December 28th.

PAUL F. KERR, *Secretary*.