

Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. Copy should be sent direct to the British Co-editor (R. C. Evans, Crystallographic Laboratory, Cavendish Laboratory, Cambridge, England).

3° Strips for Fourier Analysis and Synthesis

A third issue of these Fourier strips has now been completed, and the sets can be supplied in the following two forms: (1) Uncut tables, each set containing 366 tables 7 in. by $12\frac{1}{2}$ in., duplicated on both sides (except that the $h = 30$ tables are printed on one side only). Instructions for cutting and for the making of suitable boxes can be supplied. Delivery of this form is prompt. Price £15, plus postage. (2) Cut strips, mounted in two mahogany boxes with sloping sides, ready for use. Delivery time in this form depends upon the demand. The price is £40, plus £2.10.0. cost of crate for export, plus cost of shipping. The gross weight is 45 lb.

The 3° strips give the values of $A \cos hn3^\circ$ and $A \sin hn3^\circ$ to the nearest integer, for values of n going from 0 to 30 (even values of n being on one side and odd values of n on the reverse side). The range of A covered (on the different strips) is from -100 to $+100$ in steps of 1, and then to ± 900 in steps of 100. Thus immediate two-figure working is obtained, and users requiring higher accuracy can draw two strips per amplitude to reach a value of 1,000. The values of h go directly up to 30 in different compartments of the boxes, but the separation into even and odd values of n means that by suitable changes of sign of the amplitudes the range of h can be extended to all values. Similarly, of course, the range of n can be extended from 30 to 120.

Papers describing the strips and their uses are:

- BEEVERS, C. A. & LIPSON, H. (1934). *Phil. Mag.* **17**, 855.
 BEEVERS, C. A. & LIPSON, H. (1936). *Nature, Lond.* **137**, 825.
 LIPSON, H. & BEEVERS, C. A. (1936). *Proc. Phys. Soc.* **48**, 772.
 BEEVERS, C. A. (1952). *Acta Cryst.* **5**, 670.
 BEEVERS, C. A. & LIPSON, H. (1952). *Acta Cryst.* **5**, 673.

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International Union of Crystallography

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Structure de GeUO_4

An error occurs in the above short communication by A. Durif (*Acta Cryst.* (1956), **9**, 533). The last line of oxygen coordinates should read $\bar{y}, \frac{1}{2}+x, \frac{1}{4}+z; y, \frac{1}{2}-x, \frac{1}{4}+z$.

Tables de linéarisation des produits et puissances des facteurs de structure

Errors occur in the above short communication by E. F. Bertaut and J. Dulac (*Acta Cryst.* (1956), **9**, 322). In § 1° (a) $(-1)^{k+1}$ and $(-1)^{l+h}$ should read $(-1)^{k+l}$ and $(-1)^{l+h}$ respectively.

In the reprints of this article e on the right-hand side of equation (1) should read e_l .

A note on *cyclo*-(hexaglycyl)

Errors occur in the above short communication by E. M. Cant (*Acta Cryst.* (1956), **9**, 681). The b cell dimension of *cyclo*-(hexaglycyl) hemihydrate should be 15.59 Å. The space group of *cyclo*-(hexaglycyl) monohydrate should be $P2_1/a$.

Kristallografiya

The following is the list of contents of the first three parts of the recently-founded Russian journal *Kristallografiya*.

Part 1

Articles

- N. V. BELOV and T. N. TARKHOVA. Coloured symmetry groups.
 A. I. KITAGORODSKII. Determination of the signs of structure amplitudes.
 B. K. VAINSHTEIN. The kinetic theory of the intensities of reflexions in an electronogram. I. Point electronograms.
 M. A. PORAI-KOSHITS. A deduction of the working formulae for the electron density and structure amplitudes on the basis of the symmetry and anti-symmetry properties of trigonometric functions.
 G. B. BOKII, T. I. MALINOVSKII and A. V. ABLOV. The structures of the dihalogeno-diamines of cobalt.
 E. A. GRIBOVA, G. S. ZHDANOV and G. A. GOL'DER. X-ray structural investigations of indigo and thioindigo.
 G. S. ZHDANOV, Z. V. ZVONKOVA and L. G. VORONTOVA. X-ray structural investigation of methylene blue.
 Z. G. PINSKER and S. V. KAVERIN. Electronographic determination of the structure of the iron carbide Fe_4C .
 Z. V. ZVONKOVA. Crystal-chemical studies of the nature of donor-acceptor bonds in complex compounds of boron.
 G. B. BOKII and S. S. BATSANOV. New ionic refractions.
 A. F. KAPUSTINSKII. Constant and multiple proportions as basic assumptions of crystallography and chemistry.
 A. V. SHUBNIKOV. Certain peculiarities of the thermal deformation of crystals.
 I. S. ZHELUDEV. Dielectric ellipsoids and surfaces of dielectric permeability.
 G. G. LEMMLEIN and E. D. DUKOVA. Investigation of the rates of tangential growth of elementary layers on crystals of paratoluidine.
 A. A. CHERNOV. On tangential rates of growth of elementary layers on the surface of a crystal.

- I. A. YAKOVLEV, L. F. MIKHEEV and T. S. VELICHKINA. Molecular scattering of light and the transformation of quartz.

Short communications

- N. V. BELOV and T. N. TARKHOVA. On 'strips' methods of calculating Fourier syntheses in the structure analysis of crystals.
- B. K. VAINSHTEIN. Application of the theorem of convolution to the deduction of the formula for the temperature factor.
- K. S. ALEKSANDROV. A special case of the propagation of elastic waves in crystals.
- KH. S. BAGDASAROV and A. P. KAPUSTIN. Obtaining etch figures by means of ultrasonic oscillations.
- S. S. BATSANOV. The relation between the temperatures of melting and the refractive indices of ionic crystals.
- B. F. ORMONT. On the question of the possibility of forming the structures of deuterides (hydrides) of metals keeping molecules or pairs of hydrogen atoms in the lattice.

Part 2

Articles

- Pierre Curie (On the 50th anniversary of his death).
- B. K. VAINSHTEIN. The kinematic theory of the intensities of reflections in an electronogram. II. Electronograms from textures and polycrystals.
- A. I. ZASLAVSKII and D. L. ROGACHEV. Determination of the Laue class and the orientation of an inorganic crystal from one photograph of the stationary crystal in polychromatic radiation.
- N. L. SMIRNOVA. Structural types with the closest packing of atoms. Possible structure types with the composition AB_3 .
- E. G. FESENKO, I. M. RUMANOVA and N. V. BELOV. The crystal structure of zoisite.
- G. B. BOKII and T. S. KHODASHOVA. An X-ray structural study of crystals of $\text{InF}_3 \cdot 3\text{H}_2\text{O}$.
- N. N. ZHURAVLEV and G. S. ZHDANOV. Metallographic and X-ray studies of alloys in the system germanium-rhodium.
- S. A. SEMILETOV and Z. G. PINSKER. An electronographic study of the degree of perfection of single crystals of germanium.
- B. B. ZVYAGIN. The electronographic investigation of hydro-micas.
- G. I. DISTLER. The optical properties of new ultraviolet polarizing light filters.
- G. I. DISTLER and E. V. PARVOVA. The exploitation and study of thermally stable polarizing light filters.
- P. G. POSDNYAKOV. The growth of crystals of ethylene diamine tartrate.

Short communications

- N. V. BELOV and T. N. TARKHOVA. A nomographic method for calculating structure factors.
- Z. G. PINSKER, O. S. OREKHOV and A. I. MILLER. Electronographic studies of alloys of Bi and Sb and certain oxides of these elements.
- I. E. KAMENTSEV. The question of the orientated crystallization of potassium iodide and bromide on muscovite.
- V. G. ZUBOV. A simple method of observing the phase transformation in single crystals of quartz.

Letters to the editor

- A. V. SHUBNIKOV. On the absence of a determined relationship between the homology of the external forms of crystals and the homology of their optical indicatrices.

Review

- M. A. PORAI-KOSHITS. The application of calculating machines in X-ray structural calculations.

Part 3

Articles

- In memory of A. K. Boldyrev.
- G. S. ZHDANOV, M. M. UMANSKII, L. A. VARFOLOMEEVA, Z. I. EZHKOVA, Z. K. ZOLINA. X-ray determination of the elementary cells and space groups of the piezoelectric crystals $\text{KLiC}_4\text{H}_4\text{O}_6 \cdot \text{H}_2\text{O}$, $\text{NH}_4\text{LiC}_4\text{H}_4\text{O}_6 \cdot \text{H}_2\text{O}$, $\text{NaHC}_4\text{H}_4\text{O}_6 \cdot \text{H}_2\text{O}$ and $(\text{NH}_4)_2\text{C}_4\text{H}_4\text{O}_6$.
- L. N. SYRKIN. Investigation of the form of the potential contours for the ions in crystals of the perovskite type.
- I. V. YAVORSKII. The geometry of a diffraction picture for dynamic interaction of X-rays with the crystal.
- M. A. PORAI-KOSHITS. The crystal structure of caesium tetrachlorocobaltate, Cs_2CoCl_4 .
- Z. G. PINSKER and V. I. KHITROVA. Study of the structures of four-component alloys of Tl-Sb-As-Se.
- S. A. SEMILETOV. Electronographic study of the structures of thin layers of the sulphide, selenide and telluride of cadmium.
- B. K. VAINSHTEIN and M. M. STASOVA. An electronographic study of cryptohalite.
- S. S. BATSANOV and A. S. SONIN. The refractivity of hydrogen bonds in inorganic compounds. II.
- S. S. BATSANOV. The refractivity of hydrogen bonds in inorganic compounds. III.
- V. L. BROUDE and A. F. PRIKHOT'KO. The study of structural changes in crystals from their spectra at low temperatures.
- A. I. FROIMAN and V. M. FRIDKIN. Investigation of heterocharging of electrets of carnauba wax.
- G. G. LEMMLEIN and E. D. DUKOVA. The formation of screw dislocations in the growth process of a crystal.
- P. G. POZDNYAKOV. The growth of crystals of lithium sulphate.

Short communications

- N. V. BELOV and T. N. TARKHOVA. On the group of a 48-hedron.
- M. N. LYASHENKO. Crystals of complex compounds of metals of the platinum group (13th paper).
- E. E. BUROVAYA. Crystals of complex compounds of metals of the platinum group (14th paper).
- K. N. BARANSKII, L. A. GRIBOV and V. P. PRIKHOD'KO. The refractive index of Rochelle salt near to its phase transition point.
- I. S. ZHELUDEV and V. M. MAKAROV. The measurement of pressures in explosions of gas mixtures by means of a piezo-electric transducer.
- K. S. ALEKSANDROV and V. YA. KHAIMOV-MAL'KOV. Rotation of the plane of polarization of torsional elastic waves.
- A. V. SHUBNIKOV. On peculiarities in the crystallization of diphenylamine.