The structure of dickite: correction

Errors occur in the above article by R. E. Newnham & G. W. Brindley (Acta Cryst. (1956), 9, 759). In Table 4 the refined \(x/a\) coordinates should read 0.273 in place of 0.263 for atom O₂, and 0.763 in place of 0.773 for atom O₃.

The Si-O distances of Table 6 have been re-checked by the authors and differ slightly from those given previously. The amended values are:

- Si₁-O₁ 1.61 Å
- Si₁-O₂ 1.64 Å
- Si₁-O₃ 1.62 Å
- Si₁-O₄ 1.62 Å
- Si₂-O₁ 1.62 Å
- Si₂-O₂ 1.66 Å
- Si₂-O₃ 1.63 Å
- Si₂-O₄ 1.68 Å
- Si₃-O₁ 1.62 Å
- Si₃-O₂ 1.62 Å
- Si₃-O₃ 1.62 Å
- Si₃-O₄ 1.68 Å

Average Si-O, 1.635 Å

Crystallographic calculations on the high-speed digital computer SWAC: correction

An error occurs in equation (19) of the above paper by R. A. Sparks, R. J. Prosen, F. H. Kruse & K. N. Trueblood (Acta Cryst. (1956), 9, 350): only the numerator of the right side of the equation should be raised to the power 0.5. Thus the equation should read:

\[ \frac{L}{Z} = \frac{\sqrt{\sin^2 \theta - \sin^4 \theta}}{1 - 2 \sin^2 \theta \sin^4 \theta} \, . \]  

(19)

Kristallografiya

Volume 1, Part 4, (1956)

Articles

German Stepanovich Zhdanov (On his fiftieth birthday).

A. F. Kapustin-skij. The dimensions of the atoms and ions of the transuranic elements in crystals.

L. P. Khloodenko. The theory of the hysteresis phenomena in barium titanate.

S. A. Semiletov. The electronographic determination of the structure of antimony telluride.


M. V. Klassen-Nekljudova and A. A. Urusovskaja. The influence of a state of non-uniform stress on the mechanism of plastic deformation of the halogenides of thallium and caesium.

E. V. Kolontsova, I. V. Telegina and G. M. Plavnik. On the structure of the slip bands of certain ionic crystals.


V. V. Zubenko and M. M. Umanskii. X-ray determination of the thermal expansion coefficients of poly-crystalline substances in the range \(-50^°C\) to \(+100^°C\).


M. M. Umanskii and D. M. Khejker. X-ray goniometric methods of investigating crystals.


Short communications

B. K. Vainshtein and A. N. Lobachev. On the establishment of the character of the electron scattering (dynamic or kinematic) in structure determinations by electron diffraction.

N. V. Belov. On the one-dimensional infinite crystallographic groups.

G. G. Lemelejv and E. D. Dukova. The approximation of the centres of two spirals of opposite sign in the process of crystal growth.

E. A. Shugam and L. M. Shkol’nikov. Investigation of the crystal structures of aluminium and chromium acetylacetonate.

I. S. Zeludev and V. F. Parov. The phase transitions and the domain structure of barium titanate at \(120^°C\) and \(5^°C\).

L. G. Cheptsov. The question of the nature of the colour centres in smoky quartz.

S. S. Kvitka. A monochromator with a plane crystal for the BSV-4 tube.

Books Received

The undermentioned works have been received by the Editors. Mention here does not preclude review at a later date.


