International Tables for X-ray Crystallography

The Editors give notice of the following corrections to *International Tables for X-ray Crystallography*, vol. 1 (1952, Birmingham: Kynoch Press).

p. 1. End of 4th paragraph: Axel, not Alex.

p. 2. Column 1, line 22: 76, not 16.

p. 14. Fig. 2·4·1 is not quite geometrically exact; in particular the direction 000–110 should be normal to the (110) planes.

p. 24. Tertiary position, hexagonal system: Mirror lines, parallel, not Mirror lines at 90°.

p. 208. No. 118 should be $P\bar{4}n2$, not $P4n2$.

p. 294. Some copies only have the bar over the 6 in $P\bar{6}m2$ missing (large type, top left corner of page).

p. 360. Formula at top of page should read

$$A = 16\cos 2\pi\frac{h+k+l}{4}\times\left\{\cos 2\pi\left(hx+\frac{l}{4}\right)\cos 2\pi\left(ky+\frac{h}{4}\right)\cos 2\pi\left(lz+\frac{k}{4}\right)+\cos 2\pi\left(hz+\frac{l}{4}\right)\cos 2\pi\left(kx+\frac{h}{4}\right)\cos 2\pi\left(ly+\frac{k}{4}\right)+\cos 2\pi\left(hy+\frac{l}{4}\right)\cos 2\pi\left(kz+\frac{h}{4}\right)\cos 2\pi\left(lx+\frac{k}{4}\right)+\cos 2\pi\left(h+k+\frac{l}{4}\right)\times\left[\cos 2\pi\left(hx+\frac{k}{4}\right)\cos 2\pi\left(ly+\frac{h}{4}\right)\cos 2\pi\left(kz+\frac{l}{4}\right)+\cos 2\pi\left(hy+\frac{k}{4}\right)\cos 2\pi\left(lz+\frac{h}{4}\right)\cos 2\pi\left(kx+\frac{l}{4}\right)+\cos 2\pi\left(hz+\frac{k}{4}\right)\cos 2\pi\left(lx+\frac{h}{4}\right)\cos 2\pi\left(ky+\frac{l}{4}\right)\right]\right\}.$$

p. 435. End of 5th line from bottom: $|(Fhk\bar{l})|$ should be $|F(hk\bar{l})|$.

p. 454. $P4/mnm$ should be $P4_2/mnm$.

p. 461. D_{4h}^{03} (top right-hand corner) should be D_{4h}^{20}.

p. 505. Interchange (9) and (13), (12) and (16), (11) and (15), (10) and (14) at the ends of appropriate rows.

p. 520. (6) The formula should read

$$\begin{aligned}A = 32\{&\cos 2\pi lz\cos\pi(h+k)(x+y)\cos\pi(h-k)(x-y)\\&+\sin 2\pi lz\sin\pi(h-k)(x+y)\cos\pi(h+k)(x-y)\\&+\cos 2\pi lx\cos\pi(h+k)(y+z)\cos\pi(h-k)(y-z)\\&+\sin 2\pi lx\sin\pi(h-k)(y+z)\cos\pi(h+k)(y-z)\\&+\cos 2\pi ly\cos\pi(h+k)(z+x)\cos\pi(h-k)(z-x)\\&+\sin 2\pi ly\sin\pi(h-k)(z+x)\cos\pi(h+k)(z-x)\}\end{aligned}$$

$$F(hkl) = F(\bar{h}\bar{k}l) = F(\bar{h}kl) = -F(h\bar{k}l) = F(hk\bar{l})$$

(7) should read

Change $h \to k \to l \to h$ in formulae (6).

(8) should read

Change $h \to l \to k \to h$ in formulae (6).

$$F(hkl) = F(\bar{h}\bar{k}\bar{l}) = -F(\bar{h}kl) = F(h\bar{k}l) = F(hk\bar{l})\,.$$

p. 529. Last line: x, 0, $\frac{1}{2}$ should be $\bar{x}$, 0, $\frac{1}{2}$.

p. 534. Table 5·1·1. The diagrams for the 2nd and 6th case of the monoclinic system should be interchanged. The text is correct.

Book Reviews

Works intended for notice in this column should be sent direct to the Editor (P. P. Ewald, Polytechnic Institute of Brooklyn, 99 Livingston Street, Brooklyn 1, N.Y., U.S.A.). As far as practicable books will be reviewed in a country different from that of publication.

Diffusion in Metallen. By W. Seith and T. Heumann. Pp. vi+306 with 238 figs. Berlin, Göttingen, Heidelberg: Springer. 2nd ed. 1955. Price DM. 39.

Since publication of the first edition of Seith's book in 1939 many new results have been obtained and considerable progress in understanding diffusion phenomena in metals has been made. The second edition has, therefore, been considerably enlarged. It gives a well balanced summary of experimental methods, numerical values of diffusion coefficients, theoretical interpretation, and applications. Although other authors have published excellent and more detailed reviews on the theory of metallic diffusion, this book is especially recommended as a helpful introduction and a valuable reference work because it covers practical and theoretical aspects.

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