FOUNDATIONS
ADVANCES

ISSN: 2053-2733
journals.iucr.org/a

Diffraction line profiles from polydisperse crystalline systems. Corrigenda

Paolo Scardi

Acta Cryst. (2021). A**77**, 232

Acta Cryst A FOUNDATIONS ADVANCES

ISSN 2053-2733

Diffraction line profiles from polydisperse crystalline systems. Corrigenda

Paolo Scardi*

Department of Civil, Environmental and Mechanical Engineering, University of Trento, 38123 via Mesiano 77, Trento, Italy. *Correspondence e-mail: Paolo.Scardi@unitn.it

Received 12 March 2021
Accepted 12 March 2021

Keywords: line profile analysis; LPA; whole powder pattern modelling; WPPM; crystalline domain size; corrigenda

Equation (16) and some entries in Table 1 in the article by Scardi & Leoni [(2001), *Acta Cryst.* A**57**, 604–613] are corrected.

The variable σ in equation (16) of Scardi & Leoni (2001) is missing a superscript to indicate that this term should be squared. The correct expression is

$$M_{l,n} = \exp[n\mu + (n^2/2)\sigma^2]. \qquad (16)$$

As mentioned previously in Leonardi *et al.* (2012), there are also some errors in the common volume function (CVF) of the octahedron in Table 1 of Scardi & Leoni (2001). The same errors are found in Stokes & Wilson (1942). The coefficients for the case $A \leq B + C$ should read

$$\begin{aligned} H_0 &= 1, \\ H_1 &= -3(A + B + C)/8^{1/2}, \\ H_2 &= -3\left[A^2 + (B - C)^2 - 2A(B + C)\right]/4, \\ H_3 &= \left(A^3 + B^3 + C^3 - 3ABC\right)/2^{1/2}, \\ K^c(hkl) &= (A + B + C)/2^{1/2}. \end{aligned}$$

References

Leonardi, A., Leoni, M., Siboni, S. & Scardi, P. (2012). *J. Appl. Cryst.* **45**, 1162–1172.
Scardi, P. & Leoni, M. (2001). *Acta Cryst.* A**57**, 604–613.
Stokes, A. R. & Wilson, A. J. C. (1942). *Proc. Cambridge Philos. Soc.* **38**, 313–322.