addenda and errata



ISSN 1600-5767

Received 20 February 2023 Accepted 20 February 2023

Edited by H. Brand, Australian Synchrotron, ANSTO, Australia

Keywords: Debye–Scherrer; transmission; specimen-to-detector distance; displacement correction equation; powder X-ray diffraction; area detectors

Specimen-displacement correction for powder X-ray diffraction in Debye–Scherrer geometry with a flat area detector. Erratum

Benjamin S. Hulbert and Waltraud M. Kriven*

Materials Science and Engineering, University of Illinois at Urbana-Champaign, 1304 W. Green St., Urbana, Illinois 61801, USA. *Correspondence e-mail: kriven@illinois.edu

An error in Fig. 2(*b*) in the paper by Hulbert & Kriven [*J. Appl. Cryst.* (2023), **56**, 160–166] is corrected.

In the article by Hulbert & Kriven (2023), there is an error in Fig. 2(b) which shows the Bragg–Brentano geometry for an X-ray diffraction (XRD) experiment. The arc denoting the angle $2\theta + \delta$ was mistakenly drawn so that it ended at the base of the specimen. However, it should extend to the incident beam. The revised Fig. 2(b) diagram is given here, shown in Fig. 1. Both the derived equation and the conclusions in the original article are unaffected by this figure correction.

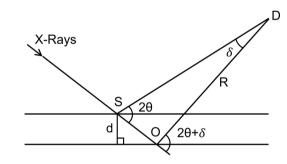


Figure 1

Revised diagram showing Bragg–Brentano XRD geometry. The original figure (Hulbert & Kriven, 2023) showed the angle $2\theta + \delta$ drawn incorrectly.

Funding information

The following funding is acknowledged: National Science Foundation, Directorate for Materials Research (grant No. 1838595 to WMK).

References

Hulbert, B. S. & Kriven, W. M. (2023). J. Appl. Cryst. 56, 160-166.

