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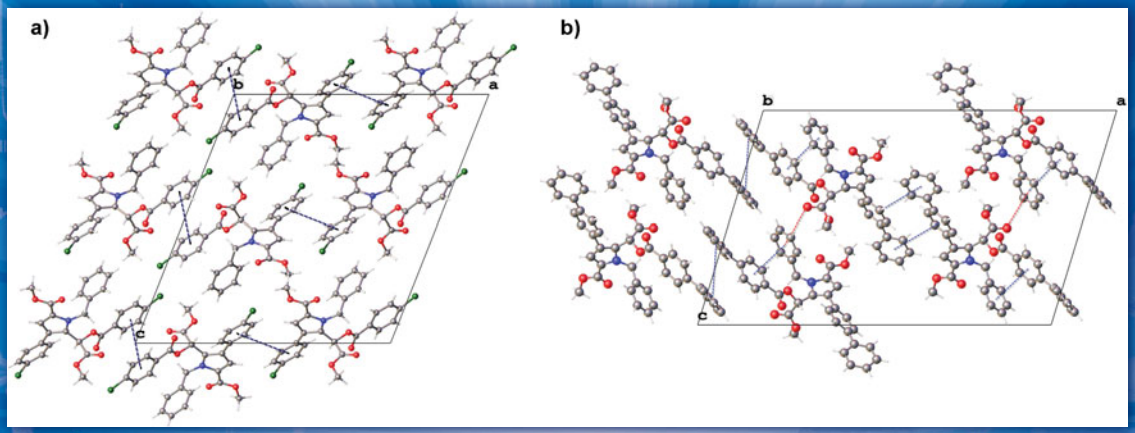
Oral Sessions & Workshops

DENVER X-RAY CONFERENCE

Powder Diffraction

An International Journal of Materials Characterization



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Volume 27 / Number 03 / September 2012
Published online by Cambridge University Press

Guidance software…
makes powder diffraction easy

Automatic alignment, CBO, and SmartLab's Guidance software engine combine to create an extremely flexible, intelligence-based data collection platform. SmartLab gathers information about your sample, suggests measurement configurations, helps you set the diffractometer, and executes measurements, all with the help of user-friendly dialog screens. CBO technology allows simple selection of focusing and parallel beam geometries on demand for the widest possible range of applications.

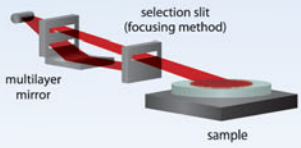
Supported powder diffraction applications include:

- Phase identification
- Quantitative analysis
- Percent crystallinity
- Crystallite size/lattice strain analysis
- Precise lattice parameter determination
- Rietveld refinement

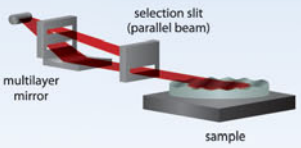
Cross Beam Optical (CBO) technology

Change and adjust optics easily, whether you are using focusing optics in the direct beam path, or a multilayer mirror optic for high-brilliance, monochromated parallel beams.

Bragg-Brentano focusing

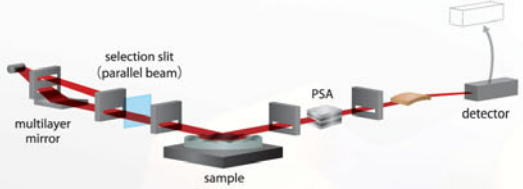


Parallel beam



High resolution parallel beam optics

By combining the parallel beam from a multilayer mirror with a long slit PSA (parallel slit analyzer), you can obtain exceptionally accurate, high-resolution data with high repeatability without the influence of sample shape or measurement environment. The effectiveness of this configuration is particularly notable for in-situ analysis, powder structure determination, and the analysis of clay minerals and organic materials.



SmartLab
X-RAY DIFFRACTOMETER

R&D 100

Rigaku

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https://doi.org/10.1017/S0885715612000541 Published online by Cambridge University Press

Powder Diffraction
An International Journal of Materials Characterization

Volume 27 Number 3 September 2012

CODEN: PODIE2
ISSN: 0885-7156

EDITORIAL

TECHNICAL ARTICLES

NEW DIFFRACTION DATA

INTERNATIONAL REPORTS

CALENDARS

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On the cover: Crystal structures of 5EA (a) and 5CA (b) viewed along the b-axis. Intermolecular contacts are shown as dotted lines. (Courtesy Iván da Silva, Sara López-Tosco, David Tejedor, Fernando García-Tellado and Javier González-Platas).

Powder Diffraction is a quarterly journal published by the JCPDS-International Centre for Diffraction Data through Cambridge University Press.

Powder Diffraction is a journal of practical technique, publishing articles relating to the widest range of application—from materials analysis to epitactic growth of thin films and to the latest advances in software. Although practice will be emphasized, theory will not be neglected, especially as its discussion will relate to better understanding of technique.

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Powder Diffraction (ISSN: 0885-7156) is published quarterly (4X annually) by the JCPDS-International Centre for Diffraction Data through Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473. POSTMASTER: Send address changes to *Powder Diffraction*, Cambridge University Press, 100 Brook Hill Drive West Nyack, NY 10994-2113, USA. Periodicals postage paid in New York, NY and additional mailing offices.

https://doi.org/10.1017/S0885715612000541 Published online by Cambridge University Press