

Towards an understanding of molecular crystals from powder X-ray diffraction techniques, Eugene Y. Cheung,* Andrew J. Hanson, Scott Habershon, Fang Guo, and Kenneth D.M. Harris, *School of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK.*
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With the advances of direct space strategies for structure solution from powder data [1,2], and in particular the success of the Genetic Algorithm method [3,4], a fundamental question on what structural information can be extracted from the diffraction data of increasingly poor diffraction data must be addressed. Structural problems which have the complexity of more than one molecule in the asymmetric unit present new challenges to powder X-ray diffraction [5], and recent developments in the structure solution of complicated structures using powder diffraction techniques will be highlighted [6].

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