
Evaluation of Bending Effects on Diffraction Intensities

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Abstract: The effects of bending on diffraction profiles and intensities have been directly evaluated. It has been shown that: bending may cause large reductions in intensities or even the total loss of them, due to bending, the profile of the reflection may become asymmetrical and it may display two or more maxima, bending effects vary with the class of reflections and they become larger with the increasing order of diffraction, and the interference function for a bent lattice must be evaluated for each set of lattice parameters, whereas the interference function for an undeformed lattice can be made invariant with respect to lattice parameters.

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