

22. Planar Defects**Problems**

22.1. A two-beam dark-field image of an antiphase boundary using 200. KeV electrons shows a reversal from dark/light ($w = 0$) to light/dark ($w = \sqrt{3}$) contrast when the sample is tilted by 7.3 mrad from the Bragg condition.

For the reflection used ($g = 6.7 \text{ nm}^{-1}$), determine:

a) the extinction distance ξ_g ;

b) the magnitude of the Fourier coefficient U_g of the structure function.
