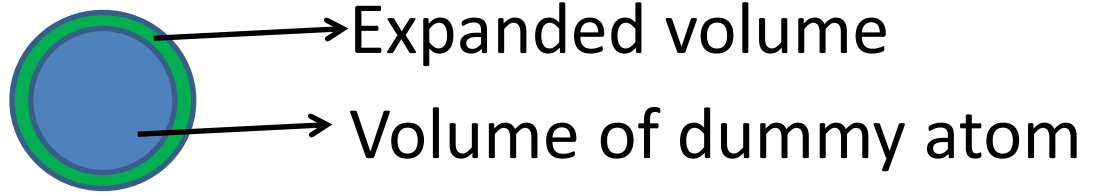


In elementary mathematics the volume of the spherical shell is evaluated in the below manner:



$$\Delta V = V_o - V_m$$

$$\Delta V = \frac{4}{3} \pi r_o^3 - \frac{4}{3} \pi r_m^3$$

$$\Delta V = \frac{4}{3} \pi [r_o^3 - r_m^3]$$

Using this kind of a relation in Fourier transform expression:

$$\exp(-\pi s^2 [V_o^{\frac{2}{3}} - V_m^{\frac{2}{3}}]) \quad V = (4\pi/3) r^3$$

$$\exp(-\pi s^2 [((\frac{4\pi}{3})^{\frac{2}{3}} (r_o^3)^{\frac{2}{3}}) - ((\frac{4\pi}{3})^{\frac{2}{3}} (r_m^3)^{\frac{2}{3}})])$$

$$\exp(-\pi s^2 (\frac{4\pi}{3})^{\frac{2}{3}} [r_o^2 - r_m^2])$$

This fraction is given as 3/2 in Crysol paper.

$$G(s) = (r_o/r_m)^3 \exp [-(4\pi/3)^{3/2} \pi s^2 (r_o^2 - r_m^2)]$$

Svergun et al. 1995 J. Appl. Cryst

- We could not understand why the fraction is given as 3/2 instead of 2/3 in your paper.