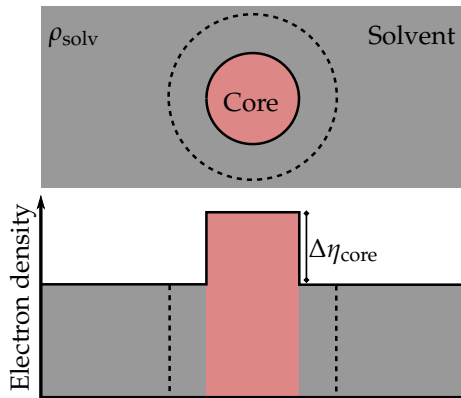


(a) Core-shell particle in solvent



(b) Contrast matching of the shell

Figure 2.5 | Variation of the solvent electron density represented by the electron density profile of a spherical core-shell particle: a) The contrast of both core and shell components is high ($\Delta\eta_{\text{core}} > \Delta\eta_{\text{shell}} > 0$), while in figure b) the solvent electron density is increased to match the shell's ($\Delta\eta_{\text{shell}} = 0$). In this case, the only contribution to the scattering intensity will arise from the core.