

1.6. Consider a polarized electron gas in which $N_{\pm}$ denotes the number of electrons with spin-up (-down).¹

(a) Find the ground-state energy to first order in the interaction potential as a function of $N = N_{+} + N_{-}$ and the polarization $\zeta = (N_{+} - N_{-})/N$.

(b) Prove that the ferromagnetic state ($\zeta = 1$) represents a lower energy than the unmagnetized state ($\zeta = 0$) if $r_s > (2\pi/5)(9\pi/4)^{1/3}(2^{1/3} + 1) = 5.45$. Explain why this is so.

(c) Show that $\partial^2(E/N)/\partial\zeta^2|_{\zeta=0}$ becomes negative for $r_s > (3\pi^2/2)^{1/3} = 6.03$.

(d) Discuss the physical significance of the two critical densities. What happens for $5.45 < r_s < 6.03$?

Solution Manual For Fetter And Walecka

Judd E. Hollander



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