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Solution: Expanding out the binomial in the denominator gives. Then, factoring out and canceling gives. An even function is defined as satisfying the following relationship . Here, it is clear that effecting the change of signs will leave the equation unchanged. Similarly. Again, it is clear that interchanging the signs leaves the equation the same.
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Chapter 1 1.1. (a) We expand the quantity ln (0)(E 1) as a Taylor series in the variable (E 1 E 1) and get ln (0)(E 1) ln 1(E 1) + ln 2(E 2) (E 2 = E (0) E 1) = fln 1(E 1) + ln 2(E 2)g+ ^ @ln 1(E 1) @E 1 + @ln 2(E 2) @E 2 @E 2 @E 1 ? E 1=E 1 (E 1 E 1)+ 1 2 (@2 ln 1(E 1) @E2 1 + @2 ln 2(E 2) @E2 2 @E 2 @E 1 2) E 1=E 1 (E 1 E 1)2 + : The rst term of this expansion is a constant, the second term van-
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Chemical Statistical Mechanics Fall 2015 Textbook: Recommended: Statistical Mechanics , by D.A. McQuarrie (University Science) ; Statistical Mechanics , by N. Davidson (Dover); Introduction to Modern Statistical Mechanics , by D .