

Fundamentals of Thermodynamics and Statistical Mechanics

ERRATA to the SECOND EDITION

- Page 64,** equation (3.5). The terms x_1, x_2 inside F in the right hand side of the equation should be replaced with x_1 and x_2 , i.e. x with subindices 1 and 2.
- Page 82,** equation (3.63). The terms $(1 + bn/V)$ in the numerator and denominator of the right hand side of the formula should be replaced by $(1 - bn/V)$.
- Page 120,** problem 4.8. In the equation for U , the magnetic field has to be squared. Replace B with B^2 .
- Page 218,** equation (9.83). The last T in the equation should not be there.
- Page 250,** equation (10.59). The left hand side should read $U_B - U_A$.
- Page 378,** equation (14.68). The second row of the matrix \mathbf{A} should be $A_{21} A_{22} \dots A_{23N}$.
- Page 401,** equation (15.56). The second row of the matrix \mathbf{A} should be $A_{21} A_{22} \dots A_{23N}$.
- Page 428,** in the first line in the paragraph after the plot $\rho_\nu(\nu)$ should be $\rho_s(\nu)$.
- Page 484,** equations (18.53a) and (18.53b). The term ϵ_a in the exponent of the last term inside the integral should be ϵ , without the subindex a .
- Page 485,** equations (18.57a) and (18.57b). The term ϵ_a in the exponent of the last term inside the integral should be ϵ , without the subindex a .
- Page 487,** problem 18.6. The term ϵ_a in the exponent inside the integral in the formula for J should be ϵ , without the subindex a .
- Page 501,** formulae (19.50) and (19.51). The derivatives should be at constant V and $\tilde{\mu}$, not T and $\tilde{\mu}$.
- Page 501,** formula (19.73). The factor 13 in the first line of the equation should be a 3.
- Page 511,** formula (19.95). The ϵ_a inside the integral should be ϵ , without the subindex a .
- Page 512,** formulae (19.100) and (19.101). The second choice in both formulae is $T > T_c$.
- Page 514,** formula (19.103). The ϵ_a inside both integrals should be ϵ , without the subindex a .