

# 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  $\epsilon_a$  in the exponent of the last term inside the integral should be  $\epsilon$ , without the subindex  $a$ .
- Page 485,** equations (18.57a) and (18.57b). The term  $\epsilon_a$  in the exponent of the last term inside the integral should be  $\epsilon$ , without the subindex  $a$ .
- Page 487,** problem 18.6. The term  $\epsilon_a$  in the exponent inside the integral in the formula for  $J$  should be  $\epsilon$ , 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  $\epsilon_a$  inside the integral should be  $\epsilon$ , 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  $\epsilon_a$  inside both integrals should be  $\epsilon$ , without the subindex  $a$ .