

## ERRATA — SECOND EDITION

**Principles of Plasma Discharges and Materials Processing**  
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- p. 19, Fig. 1.14: Add labels (a)–(d).
- p. 22, line 4: “ $T = 0.026 \text{ V}$ ” should be “ $T = 0.026 \text{ V}$ ”.
- p. 29, line 6: “ $a_x v dv_x/dt$ ” should be “ $a_x = dv_x/dt$ ”.
- p. 32, Eq. (2.3.14): remove “.” (period) from the equation.
- p. 37, equation above Eq. (2.4.12): “ $4\pi g(W) dW$ ” should be “ $g(W) dW$ ”.
- p. 37, Eq. (2.4.12): “ $v(W)$ ” should be “ $4\pi v(W)$ ”.
- p. 75, line 3: “(3.4.7)” should be “(3.4.6)”.
- p. 119, Eq. (4.5.20): “ $\omega_{ce}\omega_{ce}$ ” should be “ $\omega_{ce}\omega_{ci}$ ”.
- p. 143, Eq. (5.2.38): “ $\frac{v_{iz}^2}{D^2}$ ” should be “ $\frac{v_{iz}}{D}$ ”.
- p. 144, 2nd line from the last: “to obtain” should be “obtain”.
- p. 147, 1st line after *Heuristic Solutions*: “(5.3.23)” should be “(5.3.7)”.
- p. 159, line 5: “Fig. 12.10” should be “Fig. 12.12”.
- p. 162, Problem 5.7: “(5.2.22)” should be “(5.2.29)”.
- p. 170, Eq. (6.2.11): “ $\frac{du_i}{dx}$ ” should be “ $n \frac{du_i}{dx}$ ”.
- p. 174, 3rd line from bottom: “ $5 \times 10^{-8} \text{ s}$ ” should be “ $4 \times 10^{-8} \text{ s}$ ”.
- p. 177, line 12: “ $E = d\Phi/dx$ ” should be “ $E = -d\Phi/dx$ ”.
- p. 195, 5th line of 2nd paragraph: “all to easy” should be “all too easy”.
- p. 197, Eq. (6.6.36): “ $[1 + \frac{(V_B - \Phi_p)^{1/2}}{T_e}]$ ” should be “ $[1 + \frac{(V_B - \Phi_p)}{T_e}]^{1/2}$ ”.
- p. 221, line 4: add a space between “gas,” and “to obtain”.
- p. 221, 3rd line after Eq. (7.3.31): “ $\mu_j^\circ = \mu_j$ ” should be “ $\mu_j = \mu_j^\circ$ ”.
- p. 224, 1st two lines after the table: “(7.4.9)” and “(7.4.10)” should be exchanged.
- p. 244, line 11: “atom” should be “molecule”.
- p. 258, 7th line from the last: “state 2” should be “state 3”.
- p. 269, 3rd and 4th reactions: “AB\*” should be “AB+”.
- p. 302, top of the page: add the line “ $\sim a_{\text{eff}}$ . An electron with energy  $\mathcal{E}_e$  can”.
- p. 314, line after Eq. (9.4.11): “(5.2.10)” should be “the equation after (5.2.10)”.
- p. 317, unnumbered equation for AS(g) immediately above Eq. (9.4.29): “ $K_d$ ” should be “ $K_r$ ”.
- p. 346, equation after Eq. (10.3.20): “ $T_i n_e E + T_i n_- E$ ” should be “ $n_e E/T_i + n_- E/T_i$ ”.

- p. 346, line 8: “(10.3.14)” should be “(10.3.21)”.
- p. 350, 4th line after Eq. (10.3.37): “(10.3.26)” should be “(10.3.36)”.
- p. 355, Eq. (10.4.18): “ $K_{iz}$ ” should be “ $K_{iz}n_g$ ”.
- p. 356, Eq. (10.4.24): “ $\frac{8}{15}\alpha_0$ ” should be “ $\frac{8}{15}\alpha_0^2$ ”.
- p. 361, 4th line from bottom: “43 mTorr” should be “45 mTorr”.
- p. 380, Eq. (10.6.31): “ $K_{\text{diss}}n_en_{a0}$ ” should be “ $K_{\text{diss}}n_e$ ”.
- p. 382, Problem 10.2(c), 2nd line: “(10.2.9)” should be “(10.2.4)”.
- p. 384, Problem 10.13, 4th line: “12, and 22” should be “and 12”.
- p. 408, 2nd line above *Example 1*: “(11.2.38)” should be “(11.2.35)”.
- p. 412, Eq. (11.2.58): “0.59” should be “0.49”.
- p. 414, Eq. (11.2.63a): “ $2e$ ” should be “ $2\pi e$ ” (an error in Misium et al, 1989).
- p. 423, 10th line from bottom: “Vahedi et al. (1994)” should be “Vahedi et al. (1993)”.
- p. 426, last line: “(11.5.6)” should be “(11.5.20)”.
- p. 431, line 8: “along” should be “along (in the plane of)”.
- p. 436, Eq. (11.5.5): “ $V_a(t)$ ” should be “ $-V_a(t)$ ”.
- p. 436, Eq. (11.5.6): “ $V_b(t)$ ” should be “ $-V_b(t)$ ”.
- p. 439, line 2: “(10.2.8)” should be “(10.2.4)”.
- p. 442, 3rd line below Eq. (11.6.3): “(11.5.14)” should be “ $V_s = -V(t)$ ”.
- p. 465, 2nd line above Eq. (12.1.8): “(18.5.2)” should be “(18.5.12)”.
- p. 467, Fig. 12.2: “ $Z$ ” should be “ $Z_s$ ”.
- p. 472, 1st line after Eq. (12.2.6): “cubic” should be “quartic”.
- p. 472, 8th line of last paragraph: “(12.1.24)” should be “(12.2.5)”.
- p. 475, 2nd line above Fig. 12.6: “(10.4.24)” should be “(10.4.7b)”.
- p. 476, 3rd line in 2nd paragraph: “(3.3.7)” should be “from the equation preceding (3.3.7)”.
- p. 485, 1st line after Eq. (12.4.3): “0.1 rad” should be “0.02 rad”.
- p. 505, line 11: “(10.2.7)” should be “(10.2.12)”.
- p. 512, line 3: “(10.2.9)” should be “(10.2.4)”.
- p. 521, 4th line from the last: “(10.2.8)” should be “(10.2.13)”.
- p. 521, 2nd line from the last: “(10.2.1)” should be “(10.2.9)”.
- p. 521, last line: “(10.2.15)” should be “(10.2.11)”, and “(10.2.14)” should be “(10.2.15)”.
- pp. 523–24: “ $K_{\perp}$ ,  $K_{\times}$ ,  $K_r$ ,  $K_l$ , and  $K_{\parallel}$ ” should be “ $\kappa_{\perp}$ ,  $\kappa_{\times}$ ,  $\kappa_r$ ,  $\kappa_l$ , and  $\kappa_{\parallel}$ ” wherever they appear in the text and equations.
- p. 529, Figure 13.22: “ $_z c/\omega_{pe}$ ” should be “ $k_z c/\omega_{pe}$ ”.

- p. 555, line 6: “(14.4.5)” should be “(14.4.4)”.
- p. 557, 1st line of 2nd paragraph: “(14.4.10)” should be “(14.4.13)”.
- p. 564, 8th and 10th line from bottom: “target” should be “substrate”.
- p. 565, line just above Eq. (14.6.2): “substrate” should be “target”.
- p. 566: Equation number “(4.6.10)” should be “(14.6.10)”.
- p. 572: “300 nm” in the equation should be “500 nm”.
- p. 575, 5th line below Eq. (15.1.13): delete “(dashed curve)”.
- p. 591, line 7: “(15.3.7)” should be “(15.3.6)”.
- p. 593, Table 15.2, reaction 4: “ $\text{CF}_3^-$ ” should be “ $\text{CF}_3^+$ ”.
- p. 603, line 7: “copper chloride ( $\text{CuCl}_3$ ) is” should be “the copper chlorides are”.
- pp. 630–33: The equations in Sec. 16.3 were not sequentially numbered; equation number (16.3.2) was inadvertently omitted.
- p. 680, line 10: “Kortshagen et al. (1997)” should be “Aliev et al. (1997)”.
- p. 689, 1st line after Eq. (18.2.1): “ $\bar{\mathbf{E}}_a + \mathbf{E}_h$ ” should be “ $\bar{\mathbf{E}} = \bar{\mathbf{E}}_a + \bar{\mathbf{E}}_h$ ”.
- p. 689, Eq. (18.2.3): “Re” should be “ $\frac{1}{2}\text{Re}$ ”.
- p. 689, last line: “due the the” should be “due to the”.
- p. 690, line 4: “that” should be “than”.
- p. 700, line 15: “localized rf” should be “localized time-varying”.
- p. 702, Eq. (18.4.17): “ $(1 - \mathbf{k} \cdot \mathbf{v})/\omega$ ” should be “ $(1 - \mathbf{k} \cdot \mathbf{v}/\omega)$ ”.
- p. 709, 1st line after Eq. (18.5.12): “collisionless” should be “collisional”.
- p. 712, 7th line after Eq. (18.6.4): “versus” should be “various”.
- p. 712, 5th line of the last paragraph: delete the words “and axial”.
- p. 714, 3rd line after Eq. (18.6.6): “(18.3.26)” should be “(18.6.5)”.
- p. 718, line 1: “the figure”, should be “Fig. 11.6”.
- p. 718, line 1 of the last paragraph: “(18.6.8)” should be “(18.6.12)”.
- p. 719, line 4: “(18.6.8)” should be “(18.6.12)”.
- p. 719, line 8: “ $\Phi_0$ ” should be “ $\mathcal{E} = \Phi_0 \approx 3 \text{ V}$ ”.
- p. 734, Eq. (C18): The last “+” sign should be an “=” sign.
- p. 747, line 17: “T.D. Rognlien (1994)” should be “T.D. Rognlien (1993)”.
- p. 751, second line from last: “Thompson ionization” should be “Thomson ionization”.