

Errata for “Heat Conduction using Green’s Functions”
Hemisphere, 1992
January 2002

Chapter I

| Page | Error | Correction |
|-------------------|-----------------------------|------------------------------|
| xvi | $\alpha \dots W/m^2$ | $\alpha \dots m^2/s$ |
| xxvi, Eq. (I.32) | $q_i = + \sum \dots$ | $q_i = - \sum \dots$ |
| xxvii, Eq. (I.34) | $\nabla \cdot (k \nabla T)$ | $-k \nabla T$ |
| xxvii, Eq. (I.35) | $-k \nabla^2 T$ | $-\nabla \cdot (k \nabla T)$ |

Chapter 1

| Page | Error | Correction |
|--|--|--|
| 1, 2nd line | (1773-1841) | (1793-1841) |
| 9, Eq. (1.13) | $\frac{T_1}{2}$ | $-\frac{T_1}{2}$ |
| 15, ex. 1.4 | $\frac{1}{\alpha} \frac{\partial^2 T}{\partial x^2}$ | $\alpha \frac{\partial^2 T}{\partial x^2}$ |
| 17, ex. 1.5 (same error in two places) | $\frac{1}{\alpha} \frac{\partial^2 T}{\partial x^2}$ | $\alpha \frac{\partial^2 T}{\partial x^2}$ |
| 19, 5th line from bottom | $= G(x', -t x, -\tau)$ | $= G(x', -\tau x, -t)$ |
| 22, Prob. 1.7 | $T = x^2 + T_0$ | $T = T_1(x/L)^2 + T_0$ |

Chapter 2

| Page | Error | Correction |
|---|----------------------------|---------------------------|
| 25, Eq. (2.4) | $f_i(r_i, t)$ | $f_i(\mathbf{r}_i, t)$ |
| 25, Eq. (2.8) | $h_i T $ | $h_i T _{r_i}$ |
| 28, Table 2.2, fifth line | $f(t) = Ct^p$ | $f(t) = Ct^p, p > 1$ |
| 30, Fig. 2.4 (d), far right boundary | T | $T = t$ |
| 32, Fig 2.6 caption | X33 ... B0x5 | X33 ... B0y5 |
| 37, Prob. 2.10b | $-\partial C / \partial x$ | $\partial C / \partial x$ |

Chapter 3

| Page | Error | Correction |
|--|--|--|
| 40, Eq. (3.4c) | $G(x, t = 0 x', \tau) = 0$ | $G(x, t x', \tau) = 0$ |
| 42, Eq. (3.12),(3.13) and (3.15) (3 places) | ∂n_i | $\partial n'_i$ |
| 42, above Eq. (3.15) | $T = f_i(t)$ | $T = f_i(\tau)$ |
| 43, Eq. (3.16) third line | x_i | x'_i |
| 43, Eq. (3.18) | $-k \frac{\partial T}{\partial x}$ | $+k \frac{\partial T}{\partial x}$ |
| 44, Fig. 3.1 | $-k \frac{\partial T}{\partial x}$ | $+k \frac{\partial T}{\partial x}$ |
| 45, Fig. 3.2 | $= h(T _{x=0} - T_\infty)$ | $= h(T_\infty - T _{x=0})$ |
| 49, 2nd line | left side ... | right side ... |
| 50, Eq. (3.40) | $T \frac{\partial G}{\partial n_i}$ | $T \frac{\partial G}{\partial n'_i}$ |
| 51, above Eq. (3.46b) | ... term is | ... term is (with $k_i \rightarrow k$) |
| 51, Eq. (3.46b) | replace k_i | k |
| 56, Eq. (3.60) | $h_i T^*$ | $h_i T^* _{r_i}$ |
| 57, Eq. (3.65) | $k_i \frac{\partial T'}{\partial n_i} + h_i T' = (\rho cb)_i \frac{\partial T'}{\partial t}$ | $k_i \frac{\partial T'}{\partial n_i} _{r_i} + h_i T' _{r_i}$ $= (\rho cb)_i \frac{\partial T'}{\partial t} _{r_i}$ |
| 58, 4th line | $T'(L, t) = (T_L \dots$ | $T'(L, t) = (T_L \dots$ |
| 58, Eq. (3.67a) | $(T_L - T_0) \frac{2\pi a}{\omega L^2}$ | $(T_L - T_0) \frac{2\pi \alpha}{\omega L^2}$ |
| 59, 4th line from bottom | $m^2 \pi^2 \alpha (\dots$ | $m^2 \pi^2 \alpha / (\dots$ |
| 62, Eq. (3.80) | $W(r, t)$ | $W(r, t) _{r_i}$ |
| 62, Eq. (3.81) | $2w dx$ | $2wh dx$ |
| 63, below Eq. (3.84) | For the problem at hand the boundary | The initial and boundary |
| 63, below Eq. (3.84) | $\theta(x, 0) = T_0 - T_\infty$ $\theta(0, t) = 0$ | $\theta(x, 0) = 0$ $\theta(0, t) = T_0 - T_\infty$ |
| 63, Eq. (3.85) | $W(x, 0) = (T_0 - T_\infty)e^{m^2 \alpha t}$ $W(0, t) = 0$ | $W(x, 0) = 0$ $W(0, t) = (T_0 - T_\infty)e^{m^2 \alpha t}$ |

Chapter 3, continued

| Page | Error | Correction |
|--|--|---|
| 64, Eq. (3.87) | $\frac{2\pi}{L}$ | $\frac{2\pi}{L^2}$ |
| 64, below Eq. (3.87) and Eq. (3.88) | $\frac{2\pi}{L}$ | 2π |
| 64, below Eq. (3.87) and Eq. (3.88) | $(m^2 + n^2\pi^2)^{-1}$ | $(m^2L^2 + n^2\pi^2)^{-1}$ |
| 66, Eq. (3.94), last line | $f_j(\mathbf{r}_j)$ | $f_j(\mathbf{r}'_j)$ |
| 67, below Eq. (3.99) | $d(\sinh z)dz$ | $d(\sinh z)/dz$ |
| 69, Eq. (3.108a) | $= T_{x\infty 1}(x, y, t) \dots$ | $= h_{x1}T_{x\infty 1}(x, y, t) \dots$ |
| 70, Eq. (3.113) | L_x , two places | L |
| 70, Eq. (3.113) | $(V^2t)/(2\alpha)$ | $(V^2t)/(4\alpha)$ |
| 70, Eq. (3.114) | $(V^2t)/(2\alpha)$ | $(V^2t)/(4\alpha)$ |
| 71, Eq. (3.122) | $T_{x2}(y', z', \tau)e^{V^2\tau/(4\alpha)}$ | $T_{x2}(y', z', \tau)e^{-VL/(2\alpha)+V^2\tau/(4\alpha)}$ |
| 71, Eq. (3.123) | $T_{x2}(\tau)e^{VL/(4\alpha)+V^2\tau/(4\alpha)}$ | $T_{x2}(\tau)e^{VL/(2\alpha)+V^2\tau/(4\alpha)}$ |
| 74, Reference | \dots <i>Conduction</i> | \dots <i>Conduction,</i> <i>Ill-Posed Problems</i> |
| 75, Prob. 3.17a | $y' = y(k_y/k_x)^{1/2}$ | $y' = y(k_x/k_y)^{1/2}$ |
| 75, Prob. 3.17a | $b' = b(k_y/k_x)^{1/2}$ | $b' = b(k_x/k_y)^{1/2}$ |
| 76, 3rd line from bottom | $\frac{\partial T}{\partial t}$ | $\frac{\partial W}{\partial t}$ |
| 77, 1st paragraph, 10th line | “but the equations can be performed” | ”but the integrations can be performed” |

Chapter 4

| Page | Error | Correction |
|-----------------------------------|--|---|
| 81 and 82, Fig. 4.2 and 4.3 | 0.0000 - - 0.0000 - - 0.0000 - - | 10^{-5} - - 10^{-6} - - 10^{-7} - - |
| 82, 2nd line below Eq. 4.3 | $\mathcal{L}[f(t)]$ | $\mathcal{L}[f(t)]$ |
| 84, Eq. (4.12b) | $s\bar{T}(x, s) - sT(x, 0)$ | $s\bar{T}(x, s) - T(x, 0)$ |
| 85, below Eq. (4.17) | “given by Eq. (6.16)” | “given by Eq. (1.39)” |
| 86, Eq. (4.19b) | = 0 | is finite |
| 87, Eq. (4.28b) | = 0 | is finite |
| 88, Eq. (4.33) | $\frac{\partial rG}{\partial t}$ | $\frac{\partial G}{\partial t}$ |
| 91, line 23 and 24 | ... one insulated boundary (X21) | ... two insulated boundaries (X22) |
| 94, Eq. (4.70), right side | 0 $m = n$ | 0 $m \neq n$ |
| 97, below Eq. (4.86) | “with C = 0 . . . ” | “with B = 0 . . . ” |
| 97, Eq. (4.87), | $e^{-\beta_m \alpha t / L^2} n$ | $e^{-\beta_n^2 \alpha t / L^2}$ |
| 98, Eqs. (4.92) and (4.93) | $e^{-\beta_m \alpha t / L^2} n$ | $e^{-\beta_n^2 \alpha t / L^2}$ |
| 98, Eq. (4.95a) | $e^{-\beta_n \alpha \dots}$ | $e^{-\beta_n^2 \alpha \dots}$ |
| 98, 6th line below Eq. (4.95b) | $exp[-\beta_n^2 \alpha t / L^2]$ | $exp[-\beta_n^2 \alpha (t - \tau) / L^2]$ |
| 99, Table 4.2, caption | $e - \beta_m^2 \alpha (t - \tau) / L^2$ | $exp[-\beta_m^2 \alpha (t - \tau) / L^2]$ |
| 110, Eq. (4.124) | quotient line [— -] should be one piece | [————] |
| 112, Eq. (4.129) | $[\frac{-x^2 + y^2 + z^2}{4\alpha(t - \tau)}]$ | $[-\frac{(x^2 + y^2 + z^2)}{4\alpha(t - \tau)}]$ |
| 114, below Eq. (4.133) | $du = t - \tau$ | $u = t - \tau$ |

Chapter 5

| Page | Error | Correction |
|----------------------------------|--|---|
| 126, Table 5.3, Eq. 1., 2nd line | $\left\{ \operatorname{erfc} \left[\frac{z}{(4\alpha t)^{1/2}} \right] \right.$ $\left. - \operatorname{erfc} \left[\frac{z+L}{(4\alpha t)^{1/2}} \right] \right\}$ $+ 2 \frac{\alpha t}{L} [2K \dots$ | $\left\{ \operatorname{erfc} \left[\frac{z+L}{(4\alpha t)^{1/2}} \right] \right.$ $\left. - \operatorname{erfc} \left[\frac{z}{(4\alpha t)^{1/2}} \right] \right\}$ $+ 2 \frac{\alpha t}{L} [K \dots$ |
| 129, Eq. (5.21b) | $i^0 \operatorname{erfc}(u)$ | (delete this term) |
| 136, bottom line | $]^2\} du$ | $]^2\} du$ |
| 139, prob. 5.1 | “Eq. (5.11) with $m = 1$.” | “Eq. (5.11) with $\beta_m = m\pi$.” |

Chapter 6

| Page | Error | Correction |
|------------------------------|--|--|
| 143, Table 6.1, 2nd line | $-\frac{1}{L}\{MD_1 L ER \dots\}$ | $\{MD_1 ER \dots\}$ |
| 143, middle of Table 6.1 | $S_1 = \frac{L}{2C_1}[\dots], C_1 < \frac{1}{4}B_1$ | $S_1 = \frac{1}{2C_1 L}[\dots], C_1 < \frac{1}{4B_1}$ |
| 143, middle of Table 6.1 | $S_2 = \frac{L}{2C_1}[\dots]$ | $S_2 = \frac{1}{2C_1 L}[\dots]$ |
| 146, Table 6.3 | case X40B1T00, $E_1 = 1$ | case X40B1T00, $E_1 = 0$ |
| 147, Table 6.4, column 2 | $erf[(4z)^{1/2}]$ | $erf[(4z)^{-1/2}]$ |
| 152, Figure 6.5 | Wrong figure. | Correct figure below ↓ |
| 156, Eq. (6.42a), 2nd line | $+2 erf c \left[\frac{L+x}{(4\alpha t)^{1/2}} \right]$ | $+erf c \left[\frac{L+x}{(4\alpha t)^{1/2}} \right]$ |
| 157, Eq. (6.42b), 1st line | $-2 erf c \left[\frac{2L-x}{(4\alpha t)^{1/2}} \right]$ | $+2 erf c \left[\frac{2L-x}{(4\alpha t)^{1/2}} \right]$ |
| 157, above Eq. (6.43) | Eqs. (6.42a) and (6.42b) | Eq. (6.42a), Eq. (6.42b) and the $n = 1$ term |
| 158, 2nd line of Eq. (6.44b) | $L \bullet x \ll L$ | $(L - x) \ll L.$ |

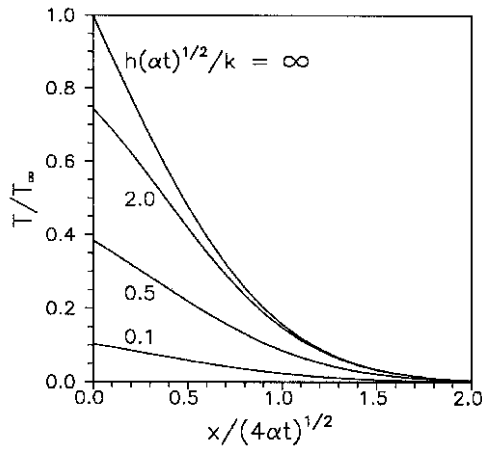


Figure 1: 6.5, page 152. Temperature in a semi-infinite body with surface convection for $h(\alpha t)^{1/2}/k = 0.1, 0.5, 2.0, \infty$.

Chapter 6, continued

| Page | Error | Correction |
|----------------------------------|---|---|
| 160, 3rd line below Eq. (6.54) | in Table 4.2 | in Table 4.3 |
| 161, 2nd line below Eq. (6.56) | $-\beta_m \alpha t / L^2$ | $\beta_m^2 \alpha t / L^2$ |
| 161, 9th line below Eq. (6.56) | $-\beta_m \alpha t / L^2$ | $\beta_m^2 \alpha t / L^2$ |
| 161, Eq. (6.57), 3 places | $\frac{\beta_m \alpha t}{L^2}$ | $\frac{\beta_m^2 \alpha t}{L^2}$ |
| 161, Eq. (6.58) | $m \leq ()^{1/2}$ | $m > ()^{1/2}$ |
| 161, 2nd line below Eq. (6.58) | $m \leq 8$ | $m > 8$ |
| 166, Eq. (6.78), third line | $[\frac{1}{2}(\frac{x'}{L})^2 - \frac{x'}{L}]$ | $[\frac{1}{2}(\frac{x'}{L})^2 - \frac{x'}{L} + \frac{\alpha t}{L^2}]$ |
| 166, end of Eq. (6.78) | } |] |
| 178, Eq. (6.115d) | $\frac{\partial T}{\partial x} \Big _{y=0} = 0$ | $\frac{\partial T}{\partial y} \Big _{y=0} = 0$ |
| 178, Eq. (6.116), 2nd line | $() _{y'=0}$ | $() _{y'=b}$ |
| 178, Eq. (6.117) | $G_{X21Y21}(x, t x', \tau)$ | $G_{X21Y21}(x, y, t x', y', \tau)$ |
| 187, Caption to Fig. 6.13 | $ P > 1$ | $ p > 1$ |
| 189, Caption to Fig. 6.15 | $O(X, Y)$ | $\theta(X, Y)$ |
| 193, Eq. (6.170), first line | $-\sum_{m=1}^{\infty} \frac{2L}{ x-x' }$ | $+\sum_{m=1}^{\infty} \frac{1}{\pi(m-\frac{1}{2})}$ |
| 194, Eq. (6.171) | $-\frac{q_o}{k}$ | $+\frac{q_o}{k}$ |
| 194, Eq. (6.171) | $\sum_{m=1}^{\infty}$ | $\sum_{m=1}^{\infty}$ |
| 194, Eq. (6.172), last line only | $-\exp[-\pi(m-\frac{1}{2})\frac{x-9}{L}]$ | $-\exp[+\pi(m-\frac{1}{2})\frac{x-a}{L}]$ |
| 194, Eq. (6.172), 2 places | $\frac{2q_o L}{k}$ | $\frac{q_o L}{k}$ |
| 194, Eq. (6.172), FOUR places | $ x - 9$ | $ x - a$ |
| | $ x + 9$ | $ x + a$ |
| | $x + 9$ | $x + a$ |
| | $x - 9$ | $x - a$ |
| 197, 2nd line | hL/x | hL/k |

Chapter 7

| Page | Error | Correction |
|-------------------------------|--|--|
| 204, 3rd line below Eq. (7.8) | “The Eq. (7.5). . . ” | “Then Eq. (7.5). . . ” |
| 207, Eq. (7.19) | (missing M definition) | where M is a finite constant. |
| 214, Eq. (7.58) | $\frac{\partial T(0, t)}{\partial r} = 0$ | $T(0, t)$ is finite |
| 215, Eq. (7.61) and (7.62) | = | \approx |
| 216, Eq. (7.66) and (7.67) | $\frac{1}{\beta_n J_n(\beta_n)}$ | $\frac{1}{\beta_n^3 J_n(\beta_n)}$ |
| 224, Prob. 7.8, 2nd exp term | $exp \left[-\frac{(r - r')^2}{4\alpha(t - \tau)} \right]$ | $exp \left[-\frac{(r + r')^2}{4\alpha(t - \tau)} \right]$ |

Chapter 8

| Page | Error | Correction |
|------------------------------------|-----------------------------|---|
| 230, in Fig. 8.4 and 8.5 | ∂ | δ |
| 233, below Eq. (8.13d) | R01B1T0 Z11B11 | R01B1 Z11B11 T1 |
| 233, Fig 8.6 | $T = T_0$, three places | $T = T_1$, three places |
| 233, Fig 8.6 Caption | R01B1T0 Z11B11 | R01B1 Z11B11 T1 |
| 235, above Eq. (8.35) | $r \approx 1$ | $r \approx a$ |
| 239, Eq. (8.36) | $2 \frac{\alpha t}{a^2}$ | $2 \left(\frac{\alpha t}{a^2} \right)^{1/2}$ |
| 240, Eq. (8.39) | $\frac{1}{2\sqrt{\pi t^+}}$ | $\frac{1}{2\sqrt{\pi t^+}}$ |
| 243, Fig. 8.10, on the bottom axis | “ $10^4 10^3 .01$ ” | “ $10^{-4} 10^{-3} 10^{-2}$ ” |
| 248, Eq. (8.64) | $\frac{1}{B_2}$ | $\frac{1}{2B_2}$ |

Chapter 9

| Page | Error | Correction |
|----------------------------|--|--|
| 253, Eq. (9.2) | $(r^2 \frac{\partial T}{\partial t})$ | $(r^2 \frac{\partial T}{\partial r})$ |
| 258, Fig. 9.2, 2 labels | $dV = r^2 \sin \theta d\theta dr$ $r \sin \theta d\theta$ | $dV = r^2 \sin \theta d\theta dr d\phi$ $r \sin \theta d\phi$ |
| 273, 5th line on page | Table 2.8 | Table 5.8 |
| 283, Eq. (9.118), 2nd line | $(b - r)(b - a)$ | $(b - r)/(b - a)$ |
| 284, Eq. (9.121) | $2\pi\alpha a$ | $2\pi\alpha a T_\infty$ |
| 287, 3rd line on page | “large-time form of G_{RS10} ” | “Green’s function” |

Chapter 10

| Page | Error | Correction |
|------------------|---------------------------------|---------------------------------|
| 310, Eq. (10.68) | $\frac{\partial t}{\partial n}$ | $\frac{\partial T}{\partial n}$ |
| 328, last line | Setting $\beta_2 = h_2/k_2$ | Setting $B_2 = h_2/k$ |

Appendix B

| Page | Error | Correction |
|------------------|------------|------------|
| 410, Eq. (B.20c) | $= W_v(z)$ | $W'_v(z)$ |

Appendix E

| Page | Error | Correction |
|---------------|-----------------------------------|---------------------------------|
| 414, 1st line | One way to expand $erf(x)$ is ... | Two ways to expand $erf(x)$ are |

Appendix F

| Page | Error | Correction |
|---------------------------------|--|--|
| 423, add to last line on page | | (continued next page) |
| 424, Eq. 10 | (Barber) | (erase this citation) |
| 426, Table F.5, No. 1, 2nd line | $e^{-4ab} erf c(a\sqrt{x} - b/\sqrt{x})$ | $e^{-4ab} erf c(a\sqrt{x} - b/\sqrt{x})$ |
| 427, Table F.6, No. 1 | $erf c(\dots)$ | $erf(\dots)$ |
| 427, Table F.6, No. 6, 2nd line | $-2a\sqrt{\pi}(1 + \dots)$ | $= -2a\sqrt{\pi}(1 + \dots)$ |

Appendix R

| Page | Error | Correction |
|------------------------------|---|--|
| 431, above Eq. (R00.1a) | (missing heading) | R00 Infinite Body |
| 436, below table | or $u > 0.55$ | for $u > 0.55$ |
| 437, heading below 2nd para. | E. 4 | R.4 |
| 440, Eq. (R02.9) | $\left(\frac{a}{b}\right)^2 + \frac{a}{b} \sum$ | $\left(\frac{a}{b}\right)^2 + \frac{2a}{b} \sum$ |
| 441, Eq. (R10.1) | $e^{-\beta^2(t-\tau)/a^2}$ | $e^{-\alpha\beta^2(t-\tau)/a^2}$ |
| 443, 1st line | $kGT/\partial r$ | $k\partial G/\partial r$ |
| 444, 3rd line | $G_{R20}(a, t a, \tau) :$ | $G_{R20}(a, t a, \tau)$ are given below. |
| 444, Eq. (R20.6) | \int_0^∞ | \int_a^∞ |
| 445, 1st line | Exact $2\pi G_{R20}(\dots)$ | Exact $2\pi a^2 G_{R20}(\dots)$ |

Appendix RΦ

| Page | Error | Correction |
|----------------------------|---|--|
| 454, Eq. (R02Φ12.1) | \bar{m} | [|
| 457, 5th line below R23Φ00 | $-\{1 - [nb/(\beta_{mn}g)]^2\}V_{mn}^2$ | $-\{1 - [nb/(\beta_{mn}a)]^2\}V_{mn}^2$ |
| 458 | (add at bottom of page) | where R_v , $N(\beta_{mn})$, β_{mn} , $N(v)$, and Φ are given in tables RΦ.1–RΦ.4 |

Appendix RS

| Page | Error | Correction |
|-----------------------------|-------------------------------|---|
| 464, Table RS.1 | replace RS30 case with: | $\frac{1}{r'} - \frac{B_1 a}{(1 + B_1) r r'}$; $r < r'$ $\frac{1}{r} - \frac{B_1 a}{(1 + B_1) r' r}$; $r > r'$ |
| 465, Eq. (RS02.3), 4th line | $2b - r - r$ | $2b - r - r'$ |
| 465, RS03 | $+h_2 G = 0 \quad r = b$ | $+h_2 G = 0 \quad \text{at } r = b$ |
| 466, center of page | RS11 ... $T = 0$ | RS11 ... $G = 0 \dots$ |
| 466, Eq. (RS11.1), 2nd line | $2n(b - a) + r - r')^2$ | $(2n(b - a) + r - r')^2$ |
| 468, Eq. (RS12.5), 3rd line | $(2b - r - r)$ | $(2b - r - r')$ |
| 469, Eq. (RS22.1), 3rd line | $\cos[\beta(r' - a)/(b - a)]$ | $\cos[\beta_m(r' - a)/(b - a)]$ |
| 470, above Eq. (RS23.1) | $G(r, t \theta', \tau)$ | $G(r, t r', \tau)$ |
| 471, Eq. (RS33.1b) | $B_1 = \frac{h_1 a}{k} + 1$ | $B_1 = \left(\frac{h_1 a}{k} + 1\right) \frac{b}{a}$ |
| 472, above references | Table R0.1 | Table R0Φ.1, p. 459 |
| | Table R0.2 | Table R0Φ.2, p. 459 |
| | Table R0.3 | Table R0Φ.3, p. 460 |

Appendix X

| Page | Error | Correction |
|-------------------------------|-----------------------------------|-----------------------------------|
| 482, Eq. (X11.5) | $\dots] t - \tau > 0$ | $\dots], t - \tau > 0$ |
| 483, Eq. (X11.13) | $\dots L^2 t - \tau > 0$ | $\dots L^2, t - \tau > 0$ |
| 485, Eq. (X12.3) | $G_{X12}(L, t, L, \tau) =$ | $G_{X12}(L, t L, \tau) \approx$ |
| 486, Eq. X13 Plate | $k\partial G/\partial x + hT = 0$ | $k\partial G/\partial x + hG = 0$ |
| 486, Eq. (X13.1), 3rd line | $(2L - x - ')^2$ | $(2L - x - x')^2$ |
| 487, Eq. (X14.1) | $G_{X14}(x, t x', \tau) =$ | $G_{X14}(x, t x', \tau) \approx$ |
| 493, Fig. X20.1 caption | 0.5 and 1.0 | 0.1, 0.25, 1.0, and 10. |
| 497, 1st equation, unnumbered | (no number) | (X23.7) |
| 501, Eq. (X30.11) | $= \exp[\dots]$ | $= 1 + \exp[\dots]$ |
| 502, Eq. (X31.6) | $\sum_{m=0}^{\infty}$ | $\sum_{m=1}^{\infty}$ |
| 503, Eq. (X33.2) | $+B_1 \sin(\beta_m x/l)$ | $+B_1 \sin(\beta_m x/L)$ |
| 503, above Eq. (X33.4) | relations | relation |
| 504, equation numbers | (X33.5) and (X33.5) | (X33.5a) and (X33.5b) |

Author Index

| Page | Error | Correction |
|------|--------------------|--------------------|
| 521 | Amos, D., 435, 449 | Amos, D., 436, 450 |