

ERRATA

HIGHER TRANSCENDENTAL FUNCTIONS, VOL. I.

P. 5, line 10: Read $[1 - z/(2n + 1)]^{-1}$ instead of $[1 - z/(2n + 1)^{-1}]$.

P. 12, equation (32): Read $\tan^{-1}(q/p)$ instead of $\tan^{-1}(p/q)$.

P. 13, equation (40): Add $a > 0, p > 1$.

P. 24, line 6 up: Read $\operatorname{Re} s > 1$ instead of $\operatorname{Re} s > 0$.

P. 34, line 6 up: Formula should read

$$\gamma_n = \frac{(-1)^n}{n!} \lim_{m \rightarrow \infty} \left(\sum_{l=1}^m \frac{(\log l)^n}{l} - \frac{(\log m)^{n+1}}{n+1} \right)$$

P. 41, line 5: Read $e^{z(x-\frac{1}{2})}$ instead of $e^{2(x-\frac{1}{2})}$.

P. 52, equation (4): Read b^a instead of b^{a-1} .

P. 57, second equation (4): Read $r!$ instead of $m!$.

P. 61, line 6: Read from instead of form.

P. 63, line 2 up: Insert $|$ after $|\arg(-z)$.

P. 64, equation (25): Read $1 + a - b$ instead of $1 - a + b$.

P. 65, line 2: Insert $\}$ before the last comma.

P. 70, equation (6): Read $r + 1 - m$ instead of $m + 1 - r$ (four times).

P. 76, equation (11): On the right-hand side read $\Gamma(a + n + 1)$ instead of $\Gamma(a + n)$.

P. 78, last line: Read $F(a - a')$ instead of $F(a - a)$.

P. 86, lines 7 up and 9 up: Omit $(-1)^n$.

P. 88, line 8 up: Read 2.1(24) instead of 1.5(24).

P. 93, line 16 up: Read (1) instead of (13).

P. 104, equation (43): Insert z between $(c - a)$ and $F(c + 1)$.

- P. 107, equation (36): Read $\Gamma(b)$ instead of $\Gamma(c)$.
- P. 108, line 15 up: Read $D \neq D'$ instead of $D = D'$.
- P. 108, equations (1) and (2): Insert $|$ before $\arg(1-z)|$.
- P. 110, last line: Read $(1-z)^{-2}$ instead of $(1-z)^{-1}$.
- P. 112, equation (17): Read $z^{1/2}$ instead of $z_{1/2}$.
- P. 112, equation (29): Read $z^2(2-z)^{-2}$ instead of $z^2/(2-z)^{-2}$.
- P. 113, equation (34): On the right-hand side read $a-b+1$ instead of $a-b-1$.
- P. 116, line 4 up: Delete 2.1(15).
- P. 126: Insert a horizontal rule midway between (20) and (21).
- P. 145, equation (23): Read $\Gamma(\frac{1}{2} + \frac{1}{2}\nu - \frac{1}{2}\mu)$ instead of $\Gamma(1 + \frac{1}{2}\nu - \frac{1}{2}\mu)$.
- P. 154, line 10: Read $\operatorname{Re} \mu < 1$ instead of $\operatorname{Re} \nu > -1$.
- P. 166, line 9: Read $(\sin v)^\mu$ instead of $(\sin v)^n$.
- P. 168, line 8 up: Read $\Gamma(\nu + m + 1)$ instead of $\Gamma(\nu + m)$.
- P. 169, line 5: Read $0 \leq \theta' < \pi$ instead of the second $0 \leq \theta < \pi$.
- P. 169, last line of equation (3): Read $0 < \theta < \pi/2$ instead of $0 < \theta' < \pi/2$.
- P. 179, equation (32): Insert $z^{-\alpha-2\nu}$ on the right-hand side, and read z^{-2} instead of z^2 .
- P. 179, last line: Read w' instead of w , and insert w before $= \operatorname{sign}$.
- P. 182, equation (1): Read $\sum_{n=0}^{\infty}$ instead of $\sum_{n=1}^{\infty}$.
- P. 183, line 17: Read $\frac{z^n}{n!}$ instead of $\frac{z}{n!}$.
- P. 185, equation (1): Read $2a + 2b$ instead of $a + 2b$.
- P. 189, equation (5): Insert ; after c on the top line of the left-hand side.
- P. 189, equation (7): On the right-hand side, $b = 1 - a$.
- P. 192, line 3: Insert $[$ after ${}_3F_2$.

P. 193, line 3: Read $n + 1; 1, 1;$ instead of $n + 1, 1; 1; .$

P. 196, equation (7): Read $\sum_{n=1}^{\infty}$ instead of $\sum_{n=0}^{\infty}$.

P. 196, equation (10): Read $1; k^2$ instead of $1, k^2,$ and read $1; 1 - k^2$ instead of $1, 1 - k^2.$

P. 196, last line: Insert Jackson's theorem at the end of the line.

P. 197, equation (11): Read q^{-N} instead of $q^{-n}.$

P. 197, equation (12): On the right-hand side read q^n instead of $g^n.$

P. 197, after equation (12) add: provided the series on the right terminates and the series on the left converges.

P. 199, line 3: Read 503-516 instead of 495-516.

P. 206, equation (14), right-hand side: Read $E(\dots\sigma; x)$ instead of $E(\dots o; x).$

P. 209, equation (10), right-hand side: Read $2^{2p-2q} x^2$ instead of $2^{2p-2q} x.$

P. 212, line 7: Read $\min \operatorname{Re} b_h$ instead of $\max \operatorname{Re} b_h.$

P. 215, equation (1): Read $G_{p,q+1}^{1,p}(-x|)$ instead of $G_{p,q+1}^{1,p}(x|).$

P. 216, equation (4): Read $(2x^{\frac{1}{2}})$ instead of $(2x^{\frac{1}{2}}).$

P. 216, equation (9): Read $G_{04}^{10}(x| a, b, 2b - a, b + \frac{1}{2})$ instead of $G_{04}^{10}(x| a, b, 2b - a, 2b - a + \frac{1}{2}).$

P. 216, equation (10): Read $\frac{1}{2}\pi^{-\frac{1}{2}} [\sin(a-b)\pi]^{-1}$ instead of $\pi^{-\frac{1}{2}} [\sin(a-b)\pi]^{-1} 2^{-5/2}.$

P. 218, equation (28): Read $[I_{b-a}(2x^{\frac{1}{2}}) - \mathbf{L}_{a-b}(2x^{\frac{1}{2}})]$ instead of $[I_{b-a}(2x^{\frac{1}{2}}) \mathbf{L}_{a-b}(2x^{\frac{1}{2}})].$

P. 218, equation (30): Read $a + b, a - b, a$ instead of $a + b, a - b, 0.$

P. 218, equation (34): Read $G_{22}^{12} \left(x \left| \begin{matrix} -c_1, -c_2 \\ a-1, -b \end{matrix} \right. \right)$ instead of $G_{22}^{12} \left(x \left| \begin{matrix} a-1, -b \\ -c_1, -c_2 \end{matrix} \right. \right)$

P. 220, equation (59): Read $\frac{x^4}{64}$ instead of x^4 .

P. 221, equation (65): Read $\frac{1}{2}\mu + \nu$, $\frac{1}{2}\mu - \nu$, $\frac{1}{2}\mu$ instead of $\nu + \frac{1}{2}\mu$, $-\nu + \frac{1}{2}\mu$, 0.

P. 221, equation (69): Erase fraction rule in G_{12}^{21} .

P. 222, equation (74): Read

$${}_2F_1(a, b; c; -x) = \frac{\Gamma(c)x}{\Gamma(a)\Gamma(b)} \cdot G_{22}^{12} \left(x \left| \begin{array}{l} -a, -b \\ -1, -c \end{array} \right. \right)$$

P. 222, equation (75), second line: Read

$$\times G_{44}^{14} \left(z \left| \begin{array}{l} -a, -b, -c, -d \\ -1, -e, -f, -l \end{array} \right. \right)$$

P. 258, equation (10): Insert - after first = sign.

P. 262, equation (5): Read $[\log x + \psi(a) - 2\gamma]$ instead of $\log x$.

P. 263, equation (14): second form of the result: Read $\Phi(c-a, c; \xi)$ and $\Phi(1-a, 2-c; \xi)$ instead of $\Phi(c-a, c; -\xi)$ and $\Phi(1-a, 2-c; -\xi)$.

P. 268, equation (36): Read Φ instead of ϕ .

P. 269, line 3 up: Read ; instead of : on the right-hand side.

P. 270, equation (7), second line: Read $1-s$ instead of $1-s^{-1}$.

P. 271, equation (16): Insert the factor t^{c-1} on the right-hand side.

P. 279, line 9 up: Read $x^{\frac{1}{2}c-\frac{1}{2}}$ instead of $x^{\frac{1}{4}+\frac{1}{2}c}$.

P. 294, lines 18 to 20: Read MacRobert, T.M. instead of MacRobert, R.M.

P. 295, line 4: Read Sharma, J.L. instead of Sharma, G.L.