TABLE ERRATA

427.—A. ERDÉLYI, W. MAGNUS, F. OBERHETTINGER & F. G. TRICOMI, *Tables of Integral Transforms*, Vols. I and II, McGraw-Hill Book Co., New York, 1954.

In Volume I, p. 205, formula 18 should be corrected to read

$$\int_b^\infty e^{-p t} \left(\frac{t-b}{t+b} \right)^{\nu/2} K_\nu [a(t^2 - b^2)^{1/2}] dt = \frac{\Gamma(\nu + 1)}{2sa^\nu} [x^\nu e^{-bs} \Gamma(-\nu, bx) - y^\nu e^{bs} \Gamma(-\nu, by)],$$

where $x = p - s$, $y = p + s$, $s = (p^2 - a^2)^{1/2}$, $\text{Re}(p + a) > 0$, $|\text{Re}(\nu)| < 1$.

In Volume II, p. 377, the factor $e^{-\alpha/2s \sinh t}$ should be inserted in the right member of formula 32. Also, on p. 378, in formula 40 the factor $\pi/2$ should be replaced by $\pi^2/4$.

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EDITORIAL NOTE: For previous notices of errata in these volumes, see *Math. Comp.*, v. 15, 1961, pp. 319–321, MTE 304; v. 18, 1964, pp. 532–533, MTE 353; v. 19, 1965, p. 361, MTE 367; v. 20, 1966, p. 641, MTE 401.

428.—I. S. GRADSHTEYN & I. M. RYZHIK, *Table of Integrals, Series, and Products*, fourth edition, prepared by YU. V. GERONIMUS & M. YU. TSEYTLIN, Academic Press, New York, 1965. [See *Math. Comp.*, v. 20, 1966, pp. 616–617, RMT 85; *ibid.*, v. 21, 1967, pp. 293–294, MTE 408.]

The fourth edition of these tables is considerably enlarged over the third edition, but many of the errors in the latter have not been corrected in this latest edition, and are accordingly included in the following list of corrections, except when they have been previously noted in the references cited in the heading.

Page	Formula	Correction
2	0.126	For $k = 1$, read $k = 0$.
	0.131	For $A_4 = \frac{19}{80}$, read $A_4 = \frac{19}{120}$.
22	1.216(2)	For $+\frac{7x^4}{4!}$, read $-\frac{7x^4}{4!}$.
27	1.331(2)	Delete coefficient $\text{sh } x$ in first equation.
32	1.361(3)	Multiply right side by $\frac{1}{2}$.
	1.371(2)	Right member should read
		$\dots - \frac{1}{2^{2n}} \text{ctg}^2 \frac{x}{2^n}$.
35	1.413(1)	For 2^{2k} , read 2^{2k-1} .
	1.413(3)	Delete central member $= x \sec x - \dots$.

<i>Page</i>	<i>Formula</i>	<i>Correction</i>
36	1.413(4)	Delete central member = $x \operatorname{cosec} x + \dots$.
	1.421(3)	Last summation should read $\sum_{\substack{k=-\infty \\ k \neq 0}}^{\infty}$
37	1.434	For $1 + \sin x$ on left side, read $\cos^2 x$; on right side, for $\frac{1}{8}$, read $\frac{1}{4}$.
38	1.442(4)	Right side should read $\frac{\pi}{4} \left[0 < x < \frac{\pi}{2} \right]$ $- \frac{\pi}{4} \left[\frac{\pi}{2} < x < \pi \right]$
	1.443(1)	Delete $(-1)^k$.
39	1.443(2)	Delete $(-1)^k$. For $(-1)^n$, read $(-1)^{n-1}$ (two places).
	1.444(5)	For $k = 1$, read $k = 0$.
	1.444(6)	For $k = 1$, read $k = 0$.
42	1.463(1 & 2)	For n , read k everywhere.
86	2.271(6)	For $\left(\frac{n-1}{k}\right)$, read $\binom{n-1}{k}$.
135	2.519(2)	For $2l - 2$, read $2l - 3$.
364	3.557(5)	For $\operatorname{ch} x - \cos \lambda$, read $\operatorname{ch} x + \cos \lambda$; for $2\Gamma(q + 1)$, read $\Gamma(q + 1)$.
527	4.224(13)	For $2^k \cdot k!$, read $2^{2k}(k!)^2$.
533	4.233(2)	For $-1.171\ 953\ 619\ 35$, read $-1.171\ 953\ 619\ 34$.
	4.233(3)	For $-0.157\ 660\ 149\ 15$, read $-0.157\ 660\ 149\ 17$.
554	4.285	For $q > 0$, read $q < 0$.
909	8.129(1)	For $\sqrt[3]{2}$, read $\sqrt{2}$.
	8.129(3)	For $\pi/18$, read $\pi/12$.
93 ₁	8.254	For $\sum_{k=0}^{\infty}$, read $\sum_{k=0}^{n-1}$.
936	8.326(1)	On left side, for $\Gamma(x)$, read $[\Gamma(x)]^2/\Gamma(2x)$.
	8.326(2)	For $\Gamma(y)$, read $\Gamma(x)$.
939	8.342(2)	For $\{1 - \zeta(2n + 1)\}$, read $\{\zeta(2n + 1)\}$.
948	8.375(1)	For $p = 1, 2, 3, \dots$, read $p = 1, 2, 3, \dots, q - 1$.
950	8.383	For $B(x, y)$, read $B(x + 1, y + 1)(x + y + 1)$. For $x, y \neq 0, -1, -2, \dots$, read $x, y \neq -1, -2, \dots$. For $k = 0$, read $k = 1$.
960	8.444(2)	Add the comment: Omit the term containing the sum over m when $k = 1$.
961	8.446	For Cz , read $e^C z$. Add the note: Omit the term $\sum_{k=1}^l \frac{1}{k}$ when $l = 0$.
967	8.467	For $+(-1)^{n+1}$, read $\pm(-1)^{n+1}$.

<i>Page</i>	<i>Formula</i>	<i>Correction</i>
973	8.511(3)	For $k = 0$ on the first sum, read $k = 1$.
	8.511(4)	For $1 + \dots$, read $J_0(z) + \dots$.
	8.512(1)	For $k = 0$, read $k = 1$.
	8.512(3)	For $\sqrt{2z}$, read $\sqrt{\frac{2z}{\pi}}$.
974	8.513(2)	For $\binom{m}{k}$, read $\binom{k}{m}$.
1021	8.844(1 & 2)	
1022	8.844(3)	For $\cos m\phi$, read $\cos k\phi$.
1025	8.911(1)	For $\frac{(2n)!}{n(n!)^2}$, read $\frac{(2n)!}{2^n(n!)^2}$.
	8.911(4)	For 2^{n-1} , read 2^n .
1028	8.924(1)	For 9062.1, read 9060.1 in reference.
	8.924(3)	For $+n \sum_{k=1}^{\infty}$, read $-n \sum_{k=1}^{E(n/2)}$,
	8.924(4)	Interchange order of $\frac{n}{2^{n+2k+1}}$ and $\sum_{k=0}^{\infty}$.
1029	8.928(1)	For $\mathbf{K}$, read $\mathbf{K}(\sin \theta)$.
	8.928(2)	For $\mathbf{E}$, read $\mathbf{E}(\sin \theta)$.
1033	8.951	For $\sqrt{2^n}$, read 2^n .
1073	9.521(2)	For $[\operatorname{Re}(z) > 0]$, read $[\operatorname{Re}(z) < 0, 0 < q \leq 1]$.
1076-7	9.612	Add the condition: $n \neq 1$.
1077	9.621	For t^n , read t^{n-1} .
1079	9.635(1)	For E_{n-1} , read $E_{n-1} + 4(-1)^n(3^{n-1} - 1)B_1$.
	9.635(2)	Add the condition: $n \geq 2$.
	9.635(3)	For left side, read $-\left(B + \frac{1}{4}\right)^{2n+1}$.

In the bibliography on p. 1081 the abbreviation for the second reference should read AK instead of AD.

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<i>Page</i>	<i>Formula</i>	<i>Correction</i>
578	4.358(2)	For $\zeta(2, \nu - 1)$, read $\zeta(2, \nu)$.
	4.358(3)	The right side should read $\Gamma(\nu)\mu^{-\nu}[(\psi(\nu) - \ln \mu)^3 + 3\zeta(2, \nu)(\psi(\nu) - \ln \mu) - 2\zeta(3, \nu)]$.
929	8.232(2)	For $-\ln(x)$, read $+\ln(x)$.

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Page	Formula	Correction
722	6.646(3)	The correct form of this formula is $\int_b^\infty e^{-pt} \left(\frac{t-b}{t+b} \right)^{\nu/2} K_\nu [a(t^2 - b^2)^{1/2}] dt =$ $\frac{\Gamma(\nu+1)}{2sa^\nu} [x^\nu e^{-bs} \Gamma(-\nu, bx) - y^\nu e^{bs} \Gamma(-\nu, by)] .$ where $x = p - s$, $y = p + s$, $s = (p^2 - a^2)^{1/2}$, $\text{Re}(p + a) > 0$, $ \text{Re}(\nu) < 1$.
722	6.647(3) 6.648	Insert the factor $e^{-\alpha/2 \sinh t}$ on the right side. In the integrand, for $\left(\frac{\alpha + \beta e^x}{\alpha e^x + \beta} \right), \quad \text{read} \left(\frac{\alpha + \beta e^x}{\alpha e^x + \beta} \right)^\nu .$
739	6.681(13) 6.682(1)	The factor $\pi/2$ should be replaced by $\pi^2/4$. The integrand should read $J_{\nu-1/2}(x \sin t) \sin^{\nu+1/2} t .$

The derivation of the correct form of 6.646(3) has recently been given by W. Soffrey (*SIAM Rev.*, v. 9, 1967, pp. 586-589).

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Page	Formula	Correction
36	1.414(2)	For $-n^2 \sum_{k=1}^\infty$, read $-n \sum_{k=1}^\infty$.
843	7.411(1) 7.411(5)	For $L_{n+1}(t)$, read $L_{n+1}(t)/(n+1)$. For $L_k(x)$, read $L_k(x)/k!$.
920	8.174	For each m , read n .
943	8.362(2)	For z in each place, read x .
947	8.373(2)	For $\frac{1}{2 \sin \pi x}$, read $\frac{\pi}{2 \sin \pi x}$, and add $\ln 2$ to the right member.
976	8.521(4)	For $+\frac{1}{\sqrt{(2ki\pi - z)^2 + x^2 + y^2}}$, read $-\frac{1}{\sqrt{(2ki\pi - z^2)^2 + x^2 + y^2}}$.
1005	8.732(2)	For $(\nu + \mu)zQ_{\nu-1}^\mu(z)$, read $(\nu + \mu)Q_{\nu-1}^\mu(z)$.
1008	8.751(3)	For $Q_{-n-3/2}^\mu$, read $Q_{n-3/2}^\mu$; for $z^{2n-\mu+3/2}$, read $\pi^{1/2} z^{-n-\mu-3/2}$.

Page	Formula	Correction
1010	8.772(3)	For $\left(\frac{z+1}{2}\right)^{-\nu}$, read $\left(\frac{z+1}{2}\right)^{\nu}$.
	8.773(1)	For $\mu + \frac{3}{2}$, read $\nu + \frac{3}{2}$.
1013	8.792	For $\sum_{k=1}^{\infty}$, read $\sum_{k=0}^{\infty}$.
1016	8.820(2)	For $\frac{\nu+3}{2}$, read $\nu + \frac{3}{2}$.
1019	8.831(3)	For $2E\left(\frac{n-1}{2}\right)$, read $E\left(\frac{n-1}{2}\right)$.
1023	8.852(2)	For 2^{-m} , read 2^{-2m} .
1028	8.923	For $\sum_{k=0}^{\infty}$, read $\sum_{k=1}^{\infty}$, and add $\frac{\pi x}{2}$ to the right member.

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EDITORIAL NOTE: For notices of errata in earlier editions, see *Math. Comp.*, v. 14, 1960, pp. 401-403, MTE 293; v. 17, 1963, p. 102, MTE 326; v. 20, 1966, p. 468, MTE 392.

429.—YUDELL L. LUKE, *Integrals of Bessel Functions*, McGraw-Hill Book Co., New York, 1962*

- P. 5: In the next to the last line before Section 1.3.2, for L_{pq}^t , read $L_{pq}^t(-z)$.
- P. 15, Eq. (2): For $-\psi(1 + \beta_q + k) + \psi(1 + \beta_q)$,
read $-\psi(1 + \delta_s + k) + \psi(1 + \delta_s)$.
- P. 17, Eq. (7): In the ${}_{p+1}F_{q+1}$, for $b_q + m$, read $1 + b_q + m$.
- P. 24, Eq. (16): In the finite sum, i.e., in $\sum_{k=0}^{2n-1}$, divide $(2n - 1 - k)!$ by $k!$.
The same correction should be made in the corresponding finite sums in Eqs. 4.2(2), 4.2(8), 4.2(10), 4.2(11) and 4.2(12), which are on pp. 96-99.
- P. 25, Eq. (21): For $\pi(1 - \nu^2)$ in denominator of second term, read $\nu\pi(1 - \nu^2)$.
- P. 26, Eq. (10): Insert $(-)^k$ behind $\sum_{k=0}^{n-1}$.
- P. 34, Eq. (3): For $x^{-n}J_n(x)$ read $(x/4)^{-n}J_n(x)$.
- P. 76, Eq. (1): Insert $(-)^k$ behind $\sum_{k=0}^{p-1}$.
- P. 98, Eq. (9): In the terms enclosed in [], replace k by m .

* Reviewed in *Math. Comp.*, v. 17, 1963, pp. 318-320. I am indebted to W. T. Chen, Eldon R. Hansen, Jesper Hansen, F. Krückeberg, Merrell L. Patrick and K. Seebass for some of the data reported here.