TABLE ERRATA

574.–A. Erdélyi, W. Magnus, F. Oberhettinger & F. G. Tricomi, *Higher Transcendental Functions*, vol. 2, McGraw-Hill Book Co., New York, 1953.

On p. 103, the right side of formula 52 should read in part:

$$-\frac{1}{2} + \pi^{1/2}x^{-1}\frac{\Gamma(\nu + 1)}{\Gamma\left(\nu + \frac{1}{2}\right)}\left(1 - \frac{t^2}{x^2}\right)^{\nu - 1/2}, \quad 0 < t < x < \pi.$$

The right side of formula 54 corresponding to $0 < x < t \leqslant \pi$ should read $-1/\pi^{1/2}$ instead of $-(\frac{1}{2} + \nu)/\pi^{1/2}$. The portion of this formula relating to the interval $0 < t < x < \pi$ is correct, but a simpler expression for this region is

$$-\frac{1}{\pi^{1/2}} + \frac{\pi^{1/2}(2\nu + 1)}{x}\int_0^{\cos^{-1}(t/x)} \sin^{2\nu}\theta\, d\theta,$$

which may be written in terms of the hypergeometric function as given, or as

$$-\frac{1}{\pi^{1/2}} + \frac{\pi\Gamma\left(\nu + \frac{3}{2}\right)}{x\Gamma(\nu + 1)} - \frac{\pi^{1/2}(2\nu + 1)t}{x^2} F\left(\frac{1}{2} - \nu, \frac{1}{2}, \frac{3}{2}; \frac{t^2}{x^2}\right).$$

These formulas have been reproduced as formulas (12) and (13) on p. 123 of [1], and accordingly the same corrections are applicable therein.

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1. V. Margulis, *Handbook of Series for Scientists and Engineers*, Academic Press, New York and London, 1965.

On p. 250, Eq. 11.5(17), which is Rodrigues' formula for the associated Legendre functions, should end with $(1 - x^2)^n$ instead of $(1 - x^2)^m$.

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Editorial note: For notices of additional errata in this volume see *Math. Comp.*, v. 30, 1976, pp. 675–676, MTE **524** and the editorial footnote thereto. Further errors in the book by Margulis are noted in *Math. Comp.*, v. 21, 1967, pp. 750–751, MTE **417**.

575.–W. Magnus, F. Oberhettinger & R. P. Soni, *Formulas and Theorems for the Special Functions of Mathematical Physics*, third enlarged edition, Springer-Verlag, New York, 1966.

The following necessary typographical corrections have been noted.

page	line	for	read
92	9	a	α
99	5	$b^{-\nu}$	b^{ν}
124	-7	4.13.1	3.13.1
167	-4	$;;$	$;$
212	12	$-\dfrac{2}{1+x}$	$\dfrac{2}{1+x}$
213	-8	$)_3$	$)_x$
214	6	t	z
217	-6	$\Sigma\,\underline{\Gamma(}$	$\Sigma\,\underline{(}$
242	6, 7	t	x
250	12	4	12
252	-7	$e^{-x^2/2}$	$e^{x^2/2}$
254	9	$\sum_{m=0}^{\infty}$	$\sum_{m=0}^{n}$
257	-10	U	U_n
268	-6	$-az$	$-aw$
285	13	$\int_z^{\infty}$	$e^z \int_z^{\infty}$
327	3	$e^{z^2/4}$	$e^{-z^2/4}$
327	12	$\sqrt{\pi}$	$\sqrt{2\pi}$
332	2, 4	$e^{-i\pi\nu}$	$e^{i\pi\nu}$
332	9	$\sum_{n=0}^{\infty}$	$\sum_{n=0}^{N}$
339	6	Erf	Erfc
340	3	e^x	e^{-x}
342	2	$\sqrt{\dfrac{\pi}{2}}\,a$	$\sqrt{\dfrac{\pi}{2}}\,a^{1/2}$
342	12 (second integral)	e^{-t}	e^{t}
347	2	e^{-x}	e^{x}
356	-1	a	n

Furthermore, on p. 86, line 1 *delete a*, and on p. 229, line 9 *delete n*. On p. 93, line 7 in the right member of the equation *read I_ν*. Similarly, on p. 250, line 7 *read $2^{n/2}He_n(x\sqrt{2})$*. On p. 471, line -7 *read $\sum_{l=0}^{n}$*; in line -4 *read*

$$\sum_{l=0}^{n}((-1)^l(n+l)!/(n-l)!(2l)!)(2\sin x)^{2l};$$

and on p. 493, line -10 *read ε_n*.

It should also be noted that the formula on p. 28, line -3 is incorrect.

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On p. 132, the right side of the last formula should read (in part):

$$-\frac{1}{2} + \pi^{1/2}x^{-1}\frac{\Gamma(\nu+1)}{\Gamma\left(\nu+\dfrac{1}{2}\right)}\left(1-\frac{t^2}{x^2}\right)^{\nu-1/2}, \qquad 0 < t < x < \pi.$$

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