

## TABLE ERRATA

319.—L. LÉVY, *Précis Élémentaire de la Théorie des Fonctions Elliptiques avec Tables Numériques et Applications*, Gauthier-Villars, Paris, 1898. [See *MTAC*, v. 3, 1948–1949, p. 274–275.]

The following corrections should be made in the table of  $F(\theta, \varphi)$ .

$\theta$	$\varphi$	<i>for</i>	<i>read</i>
60°	60°	1.21254	1.21260
75	10	.17536	.17537
75	37	.69131	.69191
75	62	1.34897	1.34896
90	31	.55956	.56956

In the table of  $E(\theta, \varphi)$ , the following changes should be made.

$\theta$	$\varphi$	<i>for</i>	<i>read</i>
15°	54°	.93450	.93460
35	10	.17427	.17424
45	73	1.13786	1.13785
90	86	.99256	.99756

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320.—K. BOHLIN, *Tables des Fonctions Elliptiques*, Stockholm, 1900. (An exact reprint, with French introduction, of tables appearing in Svenska Vetensk.-Akad., *Bihang till Handlingar*, v. 25, Afd. I, No. 7, Stockholm, 1900.)

In addition to errors duplicating those in Lévy's tables at  $F(60^\circ, 60^\circ)$ ,  $F(75^\circ, 37^\circ)$ ,  $E(15^\circ, 54^\circ)$ , and  $E(45^\circ, 73^\circ)$ , the following corrections are necessary:

	<i>for</i>	<i>read</i>
$F(30^\circ, 35^\circ)$	.62203	.62003
$F(35^\circ, 53^\circ)$	.96758	.96578
$E(10^\circ, 33^\circ)$	.56506	.57506
$E(96^\circ, 83^\circ)$	.99205	.99255

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321.—HARRIS HANCOCK, *Elliptic Integrals*, J. Wiley & Sons, New York, 1917; republished by Dover Publications, Inc., New York, 1958.

The tables herein have been extracted from Lévy without correction. Further errors, of a typographical nature, are as follows:  $F(75^\circ, 47^\circ)$  should read .92124, instead of .92224;  $E(30^\circ, 5^\circ)$  should read .08724, instead of .08744. An obscure terminal digit appears in the value given for  $E(75^\circ, 40^\circ)$ ; the correct value is .64679.

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322.—L. SILBERSTEIN, *Synopsis of Applicable Mathematics*, G. Bell & Sons, Ltd., London, 1923.

On page 160 the following errata exist in the tables of the complete elliptic integrals  $K$  and  $E$ .

<i>Argument</i>	<i>K for</i>	<i>read</i>
17°	1.6071	1.6061
23	1.6363	1.6365
35	1.7313	1.7312
46	1.8692	1.8691
66.5	2.3622	2.3621
69.5	2.4824	2.4825
87.4	4.4812	4.4811
87.6	4.5619	4.5609
89.6	6.3504	6.3509
89.7	7.6385	6.6385
89.8	8.0440	7.0440
89.9	9.7371	7.7371

<i>Argument</i>	<i>E for</i>	<i>read</i>
7°	1.5650	1.5649
8	1.5630	1.5632
22	1.5142	1.5141
46.5	1.3374	1.3373
54	1.2682	1.2681
58.5	1.2253	1.2254
62	1.1921	1.1920
66	1.1546	1.1545
67	1.1454	1.1453
69	1.1273	1.1272
86	1.0087	1.0086

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EDITOR'S NOTE: For additional errors in this book, see *Math. Comp.*, v. 14, 1960, p. 403.

323.—E. S. ALLEN, *Six-Place Tables*, seventh edition, McGraw-Hill Book Co., New York, 1947.

On pages 177 and 178 the following corrections should be made in the tables of the complete elliptic integrals  $K$  and  $E$ .

<i>sin<sup>-1</sup>k</i>	<i>K for</i>	<i>read</i>
66.5°	2.3622	2.3621
84.2	3.6853	3.6852
87.4	4.4812	4.4811
87.6	4.5619	4.5609
88.2	4.8479	4.8478
89.6	6.3504	6.3509

$\sin^{-1}k$	$E$ for	read
62°	1.1921	1.1920
66	1.1546	1.1545
67	1.1454	1.1453
69	1.1273	1.1272
81.4	1.0313	1.0314
86	1.0087	1.0086
88.2	1.0022	1.0021
89.3	1.0005	1.0004

These errata occur also in the sixth edition (1941).

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**324.**—R. O. GUMPRECHT & C. M. SLIEPCHERICH, *Tables of Riccati Bessel Functions for Large Arguments and Orders*, Edwards, Ann Arbor, Michigan, 1951. [See *MTAC*, v. 6, 1952, p. 95–97, RMT 989.]

On pages 28–30 the tables of  $C_n(120)$  and  $C_n'(120)$  are correct only to about three significant figures. On pages 123–124 the tables of  $S_n(126.35)$  and  $S_n'(126.35)$  are correct to three or four decimals only. On pages 145–146 the tables of  $S_n(172.9)$  and  $S_n'(172.9)$  for  $n \geq 100$  are correct only to three decimals, while  $S_2'(172.9)$  is correct only to four decimals.

Corrected tables for these values have been computed on a Ferranti PEGASUS computer and deposited with the Unpublished Mathematical Tables repository. The last few values in the tables may have a small error in the eighth decimal place due to accumulation of rounding errors. Otherwise, for  $n < x$  the tables are believed to be correct to about  $\pm \frac{1}{2}$  in the last place.

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**325.**—K. HAYASHI, *Tafeln für die Differenzenrechnung sowie für die Hyperbel-, Besselschen, elliptischen und anderen Funktionen*, Springer, Berlin, 1933.

At the bottom of page 8, the coefficient of  $h^{10}f^x$  for  $\Delta_{x-h}^2$  should read 0.00000 05511 46384 ... instead of 0.00000 00551 14638 ... .

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**326.**—I. M. RYSHIK & I. S. GRADSTEIN, *Summen-, Produkt- und Integral-Tafeln*, Deutscher Verlag der Wissenschaften, Berlin, 1957.

On page 83, in formula 2.269 3, the first term should read  $-\frac{1}{2ax^2}$  instead of  $-\frac{1}{2ax^3}$ .

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EDITORIAL NOTE: For additional errors in these tables, see MTE 293, *Math. Comp.*, v. 14, 1960, p. 401–403.

327.—G. W. SPENCELEY, R. M. SPENCELEY & E. R. EPPERSON, *Smithsonian Logarithmic Tables to Base e and Base 10*, The Smithsonian Institution, Washington, D. C., 1952.

The following errata supplement those already reported in this journal (*MTAC*, v. 10, 1956, p. 261; v. 11, 1957, p. 226; *Math. Comp.*, v. 14, 1960, p. 308; v. 15, 1961, p. 113).

<i>Page</i>	<i>Entry</i>	<i>for</i>	<i>read</i>
346	7176	...2430θ...	...24300...
362	7968	90135...	90134...
364	8057	80617...	90617...
369	8348	22158...	92158...

On page 365 the argument 8030 should read 8130.

Two additional errors in the table of natural logarithms have been noted in A. Fletcher, J. C. P. Miller, L. Rosenhead, and L. J. Comrie, *An Index of Mathematical Tables*, second edition, 1962, v. II, p. 910.

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328.—J. B. DALE, *Five-Figure Tables of Mathematical Functions Comprising Tables of Logarithms, Powers of Numbers, Trigonometric, Elliptic, and other Transcendental Functions*, second edition, Edward Arnold & Co., London, 1949. [See *MTAC*, v. 3, 1948–49, p. 262 and 514; *Math. Comp.*, v. 14, 1960, p. 219.]

<i>Page</i>	<i>Function</i>	<i>Argument</i>	<i>for</i>	<i>read</i>
85	$e^x$	.65	1.91544	1.91554
92	$gd^{-1}\theta$	68.5°	1.66148	1.66149
94	$F(\theta, \phi)$	20°, 8°	.19368	.13968
		40°, 4°	.06894	.06984
95		70°, 35°	.64708	.64707
		75°, 5°	.08787	.08737
		85°, 30°	.54909	.54908
97		60°, 60°	1.21254	1.21260
98	$E(\theta, \phi)$	35°, 22°	.38093	.38094
99		80°, 38°	.16720	.61720
100		45°, 73°	1.13786	1.13785
102	$E_1 [\equiv E(\theta)]$	30°	1.47646	1.46746
113	$Si(x)$	65	1.5775	1.5792

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EDITORIAL NOTE: Further errors are listed in *An Index of Mathematical Tables*, by A. Fletcher, J. C. P. Miller, L. Rosenhead, and L. J. Comrie, second edition, 1962, v. II, p. 804.